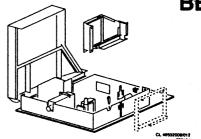
21GX1870

MODEL

SERVICE MANUAL

Anubis S

Page



ervice Manual

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ANUBIS-S

1. Technical specifications

```
: 140 - 276 V ; 50/60 Hz (± 5%)
Mains voltage
                                                 : 90 - 276 V: 50/60 Hz (± 5%)
Power cons. at 220V~
                                                 : 21° 64 W (stand-by ≤ 12 W)
                                                 : 25° 76 W (stand-by s 14 W)
Aerial input impedance TV
                                                 : 75Q - coax
Min. aerial input VHF
                                                 : 30µV
Min. aerial input UHF
                                                 : 40uV
Max. aerial input VHF/UHF
                                                 : ≥ 180mV
Pull-in range colour sync
                                                 : ± 300Hz (NTSC 3.58: ± 250Hz)
Pull-in range horizontal sync
                                                 : ± 600Hz
Pull-in range vertical sync
                                                 : ± 5Hz
Picture tube range
                                                 : 21° A51 KXR 95X Narrow neck Global Hemisphere
                                                 : 25" A59 LAM 93X01 Narrow neck Northern Hemisphere
                                                 : 25" A59 LAM 94X01 Narrow neck Neutral Hemisphere
                                                 : 25" A59 LAM 95X01 Narrow neck Soutern Hemisphere
1
                                                 : 2x2W squeeters 25Ω + 1x4W subwoofer 16Ω; 20Hz-14kHz
TV Systems
                                                 : /65/67/68/79/94:
                                                                     PAL B/G (NTSC 4.43 PB optional)
                                                                      PAL B/H (NTSC 4.43 PB optional)
                                                 : /56/57/69/70/93:
                                                                     PAL B/G/I & SECAM B/G/D/K & NTSC M
                                                                      (NTSC 4.43 PB optional)
                                                 : /58/59/62:
                                                                      PAL B/G & SECAM B/G/D/K (NTSC 4.43 PB optional)
                                                                      PAL M/N & NTSC M
                                                 : /54:
                                                 : /71/85:
                                                                      NTSC M
                                                                     PAL M
                                                 : /78:
Indications
                                                 : On Screen Display (OSD)
                                                 : 1 LED ( ) green, () red, "RC5" orange)
VCR programs
                                                 : 0 and 39
Tuning and operating system
                                                 : T VST/PLL
UV 913/IEC (VST)
                                                                      48.25 - 82.25 MHz
                                                 : Band I:
                                                 : Band III:
                                                                      163.25 - 224.25 MHz
                                                 : UHF:
                                                                      471.25 - 855.25 MHz
UV 915E/IEC (VST)
                                                 : Band I:
                                                                      48.25 - 168.25 MHz
                                                 : Band III:
                                                                      175.25 - 447.25 MHz
                                                 : UHF:
                                                                      455.25 - 855.25 MHz
UV 936E/F & UV 936E/IEC (PLL)
                                                 : Band I:
                                                                      55.25 - 157.25 MHz
                                                 : Band III:
                                                                      162.00 - 451.25 MHz
                                                 : UHF:
                                                                      457.25 - 801.25 MHz
UV 953/IEC (VST)
                                                                      48.25 - 93.25 MHz
                                                 : Band I:
                                                 : Band III:
                                                                      168.25 - 224.25 MHz
                                                 : UHF:
                                                                      471.25 - 863.25 MHz
UV 963/IEC (VST)
                                                 : Band I:
                                                                      46.25 - 102.25 MHz
                                                 : Band III:
                                                                      138.25 - 224.25 MHz
                                                 : UHF:
                                                                     471.25 - 855.25 MHz
Local operating functions
```

2. Connection facilities

: ⊚ 1 x cinch CVBS ⊕ 1V pp / 75Ω Rear cinch AV IN VOL.- VOL.+ :
 2 x cinch Audio L & R → 500mV RMS / 47kΩ Rear cinch AV OUT : (a) 1 x cinch CVBS (3+ 1V pp / 75Ω ② 2 x cinch Audio L & R → 500mV RMS / 47kΩ Rear SVHS : Y 1V _{pp} / 75Ω INSTALL -: C 1V pp / 75Ω Rear SCART (for /62) 2 x Audio L & A 0 500mV RMS (47kΩ : 1 x CVBS (1V pp / 75Ω : 2 x Audio L & R → 500mV RMS / 47kΩ : (a) 1 x cinch CVBS (3+ 1V pp / 75Ω Front cinch AV IN (optional) CL 36532150/016 030294 O 2 x cinch Audio L & R → 500mV RMS / 47kΩ : @% 8-600Ω; 10mW Front headphone

: Volume +/-, Program +/-, Install

4. Mechanical instructions

General

All panels are plugged for easy (dis)connecting and can be removed without damaging the circuitry.

For <u>video related faultfinding</u> the main carrier can be disconnected from the TXT panel and the CCS+I/O+AMPL panel as the set will automatically switch to internal CVBS (except for SECAM chroma which signal path is via the 2CS+I/O+AMPL panel). Of course for CVBS I/O faultfinding the 2CS+I/O+AMPL panel should be connected to the main carrier.

For <u>audio related faultfinding</u> first measure pin 1 IC7225-6F (AUDIO_OUT LF audio signal inclusive BTSC and NICAM info) and TP 42 and 43 at resp pin 5 and 3 of connector Q4 (AF1 and AF2):

- * If all OK, the fault is on the 2CS+I/O+AMPL or NICAM or BTSC panel
- * If not all OK, the fault is on the main carrier (QSS or IC7225-6F

Service position MAIN CARRIER

For the main carrier panel with the plugged panels on it there two service positions are possible:

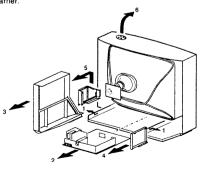
- A: For faultfinding on the component side of the main carrier
- B: For (de)soldering activities on the copper side of the main carrier

Position A can be reached by first shifting out the mains cord fixation block, then loosen the carrier lips (1) and then pulling the carrier panel (2) for approximately 10 cm (all cables to all other panels in the TV can be remained connected).

Position B can be reached from position A by disconnecting all cables to the TXT and the 2CS+I/O+AMPL panel and the degaussing cable. Put the carrier on the line transformer side.

Service position 2CS+I/O+AMPL panel and NICAM/BTSC panel

The entire bracket with both the 2CS+I/O+AMPL panel and the NICAM/BTSC panel can be shifted out of the cabinet by pulling backwards the entire bracket (3). By then the bracket with all panels in it can be laid on it's left side (seen from the back) while still connected to the main carrier.



Also both panels can be easily clicked out of the bracket. The 2CS+I/O+AMPL panel can be shifted backwards after releasing one catching finger on the top part of the bracket. The NICAM or BTSC panel can be released by pulling upwards the middle part of the bracket a little.

Service position MAINS INPUT panel (25" only)

The entire bracket can be shifted out of the cabinet by pulling backwards the entire bracket (4). By then the bracket with the mains input panel in it can be laid on it's left side (seen from the back) while still connected to the main carrier.

Also the mains input panel can easily be clicked out of it's bracket by releasing the 2 catching fingers on the top part of the bracket.

Service position TXT and TXT INTERFACE panel

The entire bracket can be shifted out of the cabinet by lifting the release finger at the bottom side of the bracket with a screwdriver and then pulling backwards the entire bracket (5). By then the bracket with the TXT and TXT interface panel in it can be laid on the left side (seen from the back) while still connected to the main carrier.

Also the TXT and the TXT interface panel can be easily clicked out of the panel by releasing the 2 catching fingers on the top and the back part of the bracket.

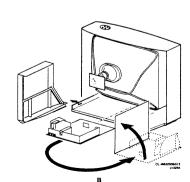
Service position TOP CONTROL panel

The top control panel can be taken out of the cabinet by first smoothly releasing the click fit on the left under side of the top control bracket (seen from the back) with a small plier. By then "turn" out the bracket with the panel out of the cabinet (6).

Service position LED + IR panel and HEADPHONE panel

First pull out the main carrier. Then srew out the 2 fixation screws of the LED +IR and headphone bracket. By then pull backwards the bracket with the extended handgrip.

Also the LED + IR panel and the HEADPHONE panel can be easily clicked out of it's bracket by releasing the clicks



M p.22 TXT interface panel Top control panel F p.16 Front AV-IN D.18 N p.23 TXT panel ECCT H p.17 2CS CRT panel E p.15 p.18 I/O Interfacing (Placed in EE p.15 p.19 Amplification Headphone panel F p.16 G p.17 QSS panel LED /IR panel F p.16 (Placed under pictur K p.21 NICAM panel L p.20 or BTSC panel Volume control panel F p.16 D p.14 Multi sound panel Mains input panel (25"/29"only) AA p.11 A p.9 Power supply control panel 21" -AA p.11 Power supply control panel 25" ---

3. Warnings and notes

Warnings

- A set to be repaired should always be connected to the mains via a suitable isolating transformer.
- Safety regulations demand that the set be restored to its original condition and that components identical with the original types be used. Safety components are marked by the symbol .
- To prevent damage to ICs and transistors any flash-over of the EHT should be avoided.

To prevent damage to the picture tube the method, indicated in Fig. 3.1, has to be applied to discharge the picture tube. Make use of an EHT probe and a universal meter (position DC-V). Discharge until the reading of the meter is 0V (after approx. 30s).

4. ESD 🙏

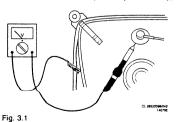
All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair may reduce life drastically. When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools on the same potential.

- The deflection and multipole unit is delivered separately of the picture tube; it has to be adjusted by the service technician (see chapter 7).
- **6.** Proceed with care when testing the EHT section and the picture tube.
- Never replace any modules or any other parts while the set is switched on.
- Wear safety goggles during replacement of the picture tube.

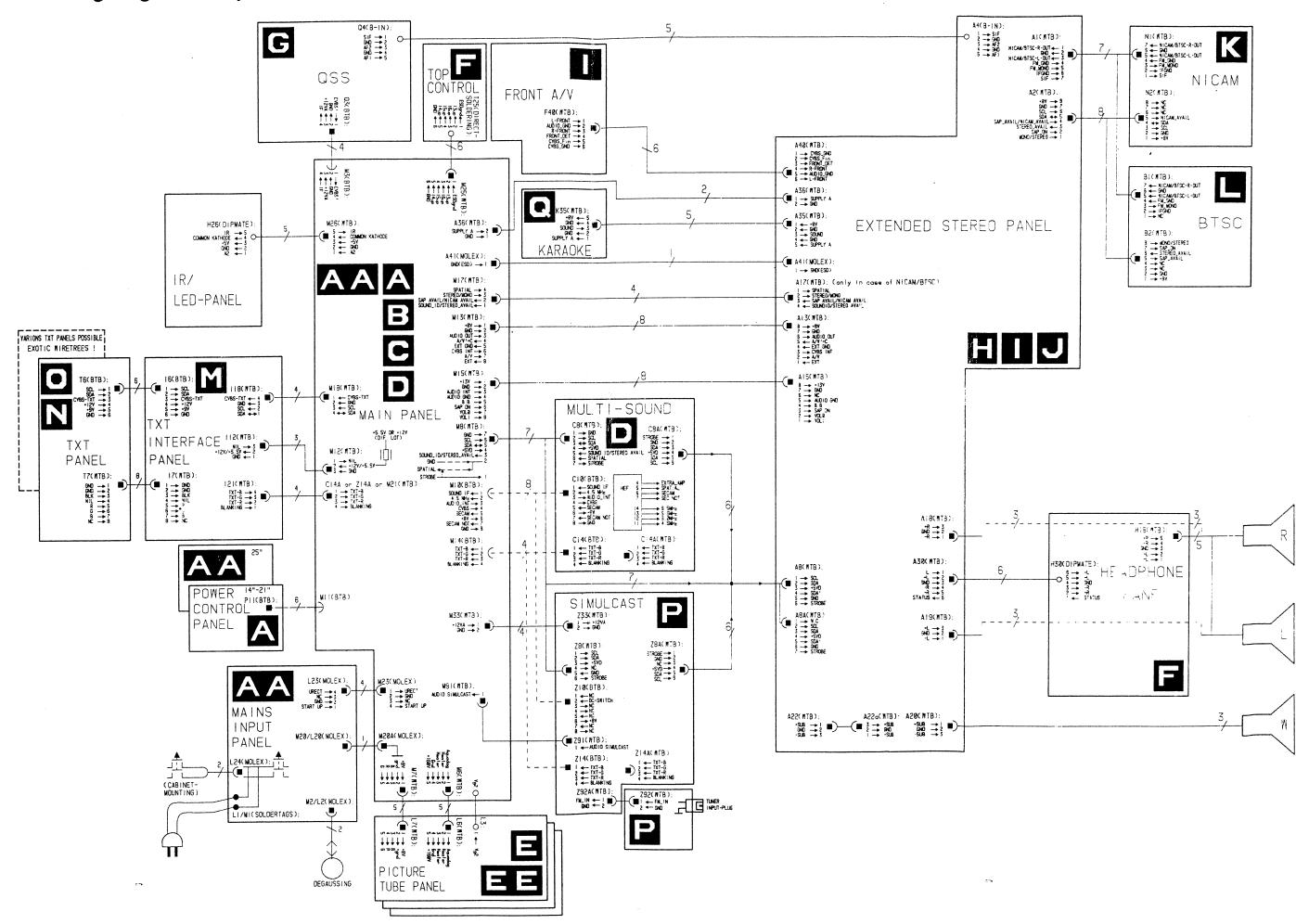
- Use plastic instead of metal alignment tools.
 This in order to preclude short-circuit or to prevent a specific circuit from being rendered unstable.
- Upon a repair of a transistor or IC assembly i.e. a transistor or IC with heatsink and spring remounting should be carried out in the following order:
 - 1. Mount transistor or IC on heatsink with spring.
 - 2. Mount assembly and resolder the joints at last.

Notes

- 1. Do not use heatsinks as earth reference.
- The direct voltages and waveforms should be measured relative to the nearest earthing point on the printed circuit board.
- 3. The DC voltages and oscillograms are where necessary measured with (¬|¬) and without (¬|¬) hard at signal. (settings as in Service Default Mode; see chapter 8). Voltages and oscillograms in the power supply section have been measured for both normal operation (⊕) and in the stand-by mode (⊕). As an input signal a colour bar pattern has been used.
- Connectors used for the modules (board to board) are gold-plated and must be replaced by the same type only.



5. Wiring diagram / Esquema del circuito eléctrico ANUBIS-S Wiring diagram / Esquema del circuito eléctrico



Overview oscillograms / Sumario de oscilogramas ANUBIS-S 6

TP12.25* Ф

0,2V/div AC

2ms div

TP13.21" ①

100V/div AC

5μs div

TP13.21" 也

0,1V/div AC

1μs div

TP13.25" ①

100V/div AC

5μs div

TP13.25* ტ

100V/div AC

5μs div

TP14.21" ①

TP14.25" ①

1V/div AC

0,5µs div

TP14.25" 💍

1V/div AC

0,5µs div

TP15.21" ①

5V/div AC

5μs div

5V/div AC

10μs div

TP15.25*

Φ

Φ

TP15.21"

TP8

T=20ms

Δv=2v

T=20ms

∆v=2v

T=20ms

∆v=2v

T=20ms

∆v=2v

TP10

TP11

TP1

TP2

TP3

T=5us

Δv=2v

T=5us

 $\Delta v = 2v$

T=5us

∆v=2v

T=5us

Δv=2v

TP5

TP17.21" = DC 2V5

TP17.21" = DC 2V5 Φ TP17.25" = DC 2V5

TP17.25" = DC 2V5 φ

TP18.21" = DC 6V

Φ

TP18.21" = DC 6V Ф

TP18.25" = DC 5V1

TP18.25" = DC 5V1

Φ

TP19.21" = DC 13V

Φ TP19.21" = DC 13V

Φ

TP19.25" = DC 14V7 Φ

TP19.25" = DC 14V5 Ф

TP20.21" = DC 116V

TP20.21" = DC 122V

Φ

TP20.25" = DC 114V

0 TP20.25" = DC 126V

TP23

TP24

TP25

TP26

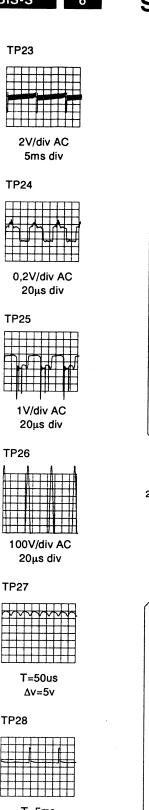
TP27

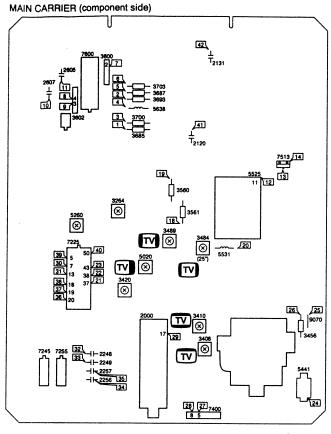
20µs div

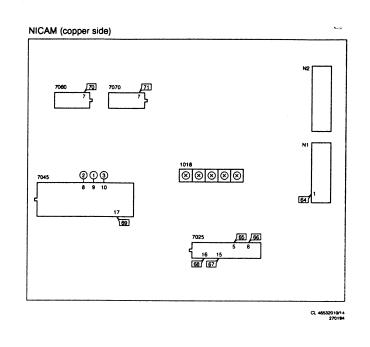
20µs div

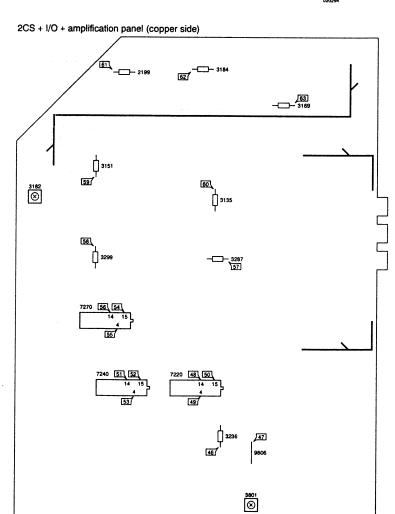
5ms div

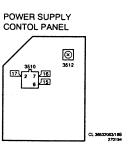
Survey of testpoints / Puntos de prueba

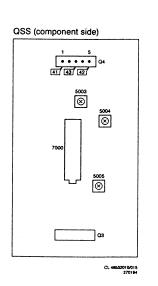




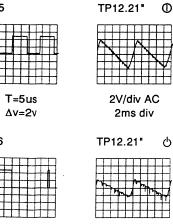


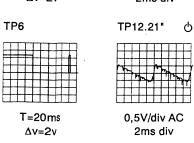


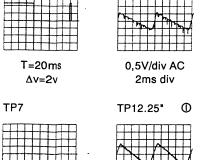


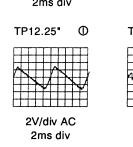


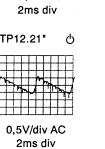


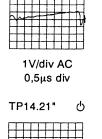


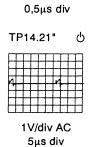


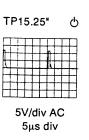












0

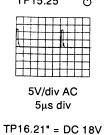
TP16.21" = DC 17V5 Ф TP16.25" = DC 14V8 0

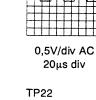
TP16.25" = DC 14V5

Φ

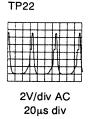
5V/div AC

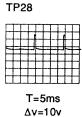
5μs div





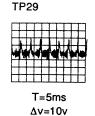
TP21

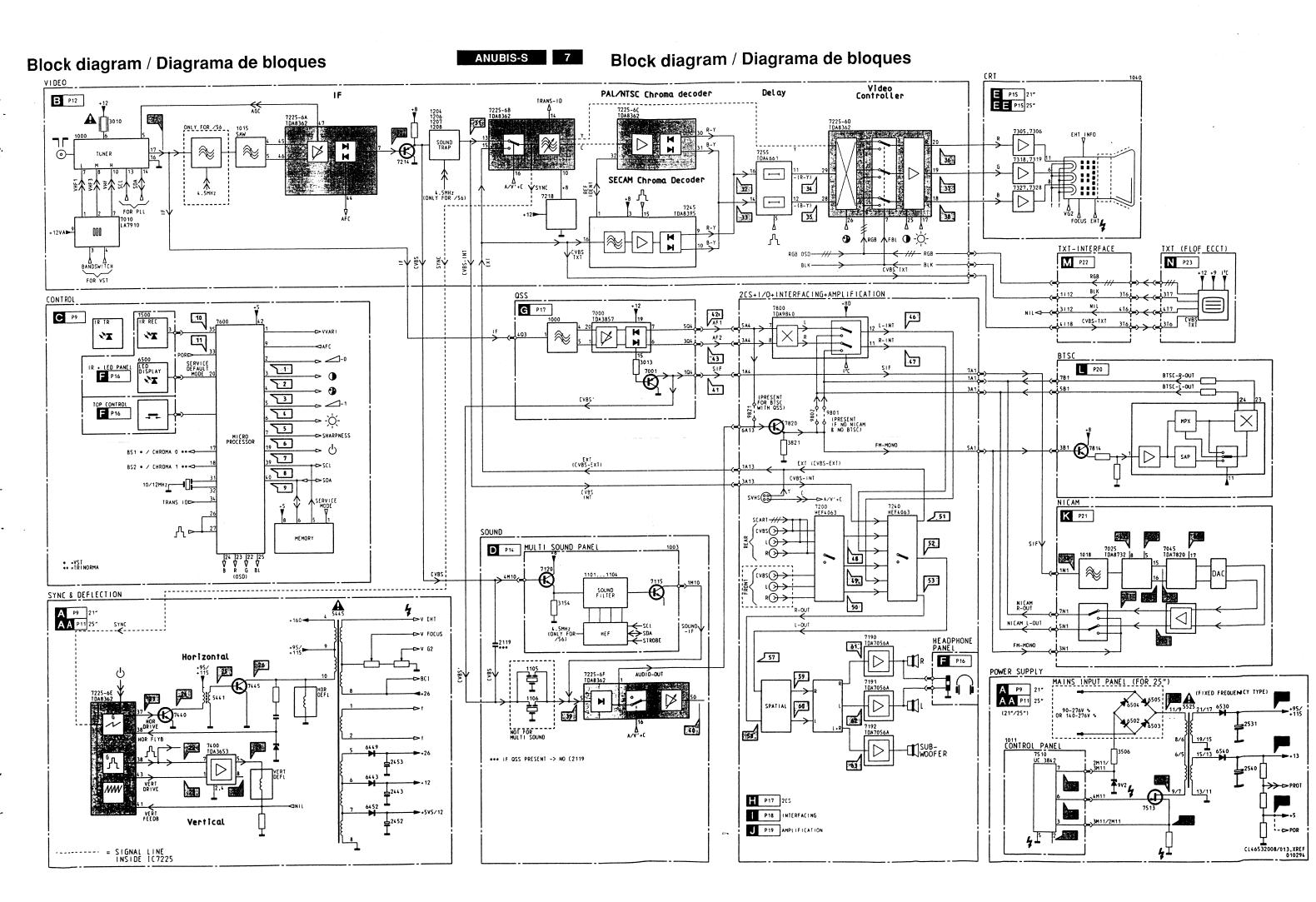




T=50us

 $\Delta v = 5v$





TP30



T=20us Δv=0v5 AC

TP31



T=20us Δv=0v5 AC

TP32



T=20us Δv=0v2 AC





T=20us Δv=0v2 AC

TP34



T=20us Δv=0v2 AC





T=20us $\Delta v = 0v2 AC$

TP36



T=20us ∆v=1v

TP37



T=50us $\Delta v = 1v$

TP38



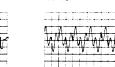
T=10us $\Delta v = 1v$

TP39



0,2V/div AC 1μs div

TP40



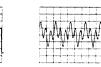
0,5V/div AC 0,5ms div

TP41



0,2V/div AC 10μs div

TP42



0.5V/div AC 0,5ms div

TP43



0,5ms div

Overview oscillograms / Sumario de oscilogramas

TP46



0,5V/div AC 0,5ms div

TP47



0,5V/div AC 0,5ms div

TP48



0,5V/div AC 0,5ms div



0.5V/div AC 0,5ms div

TP50



0,5V/div AC 0,5ms div



TP51

0,5V/div AC 0,5ms div

TP52



0,5V/div AC 0,2ms div

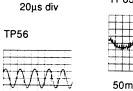
TP53 MMA

0,5V/div AC 0,5ms div

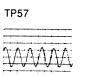
TP54 = DC 4,5V



0,2V/div AC



0,5V/div AC 0,5ms div



0.5V/div AC 0,2ms div



0,5V/div AC 0,5ms div



0,5V/div AC 0,5ms div



0,5V/div AC 0,5ms div

TP61



0,2ms div



0,1 V/div AC 0,2ms div



50mV/div AC 0,2ms div



0,1V/div AC 0,5µs div



2V/div AC 0,5μs div



2V/div AC 0,5µs div

TP69



20µs div

TP70



0,5V/div AC 0,2ms div



0,5V/div AC 0,5ms div



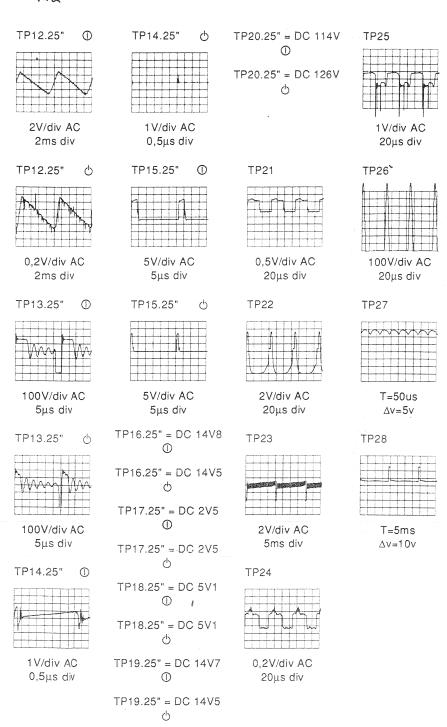
5V/div AC 0,5μs div



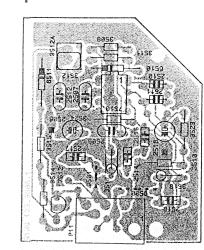
2V/div AC 0,5μs div



5V/div AC 0,5µs div



Power supply control panel 25"



| | P11 | | M11 |
|---|-----|-------------|----------------------|
| - | 1 | GND - HOT | 1 |
| | 2 | -← FEEDBACK | 2 |
| - | 3 | START - UP | 3 |
| | 4 | -> DRIVE | 4 |
| - | 5 | → SENSE | 5 |
| - | 6 | → SENSE | 6 |
| | | CL 46 | 532008/11E 270194 |

Tuner + IF + Video

TP29



TP36

T=5ms $\Delta V = 10V$

T=20us $\Delta v = 1v$

TP30

TP37

T=20us Δv=0v5 AC

T=50us $\Delta V = 1 V$

TP31



TP38

T=20us Δv=0v5 AC

T=10us $\Delta v = 1 v$

TP32



T=20us Δv=0v2 AC

TP33



T=20us Δv=0v2 AC

TP34



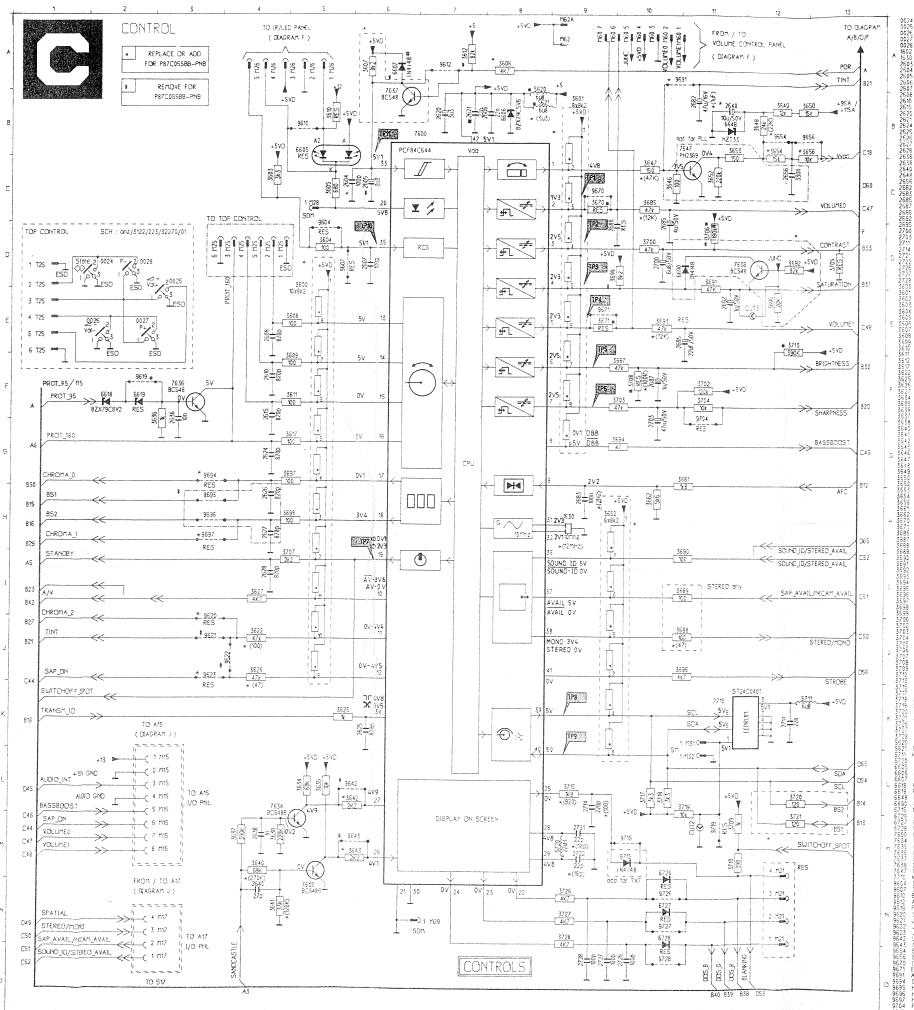
T=20us Δv=0v2 AC

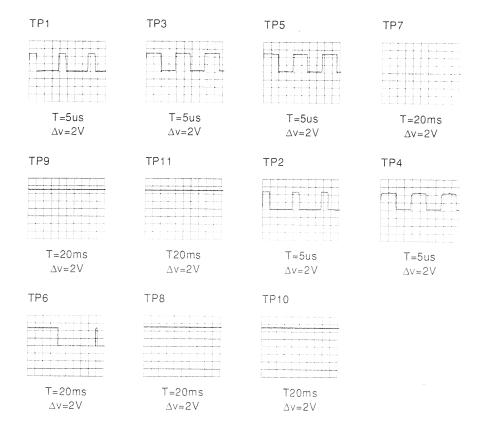
TP35



T=20us Δv=0v2 AC





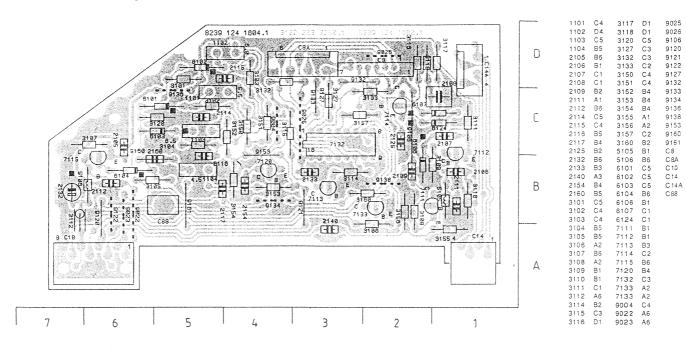


| for PCA84C844P | 21" | 25'' |
|----------------|---------|---------|
| 2621 | 22n | - 10 |
| 3670 | 560Ω | jumper |
| 3671 | 560Ω | jumper |
| 3706 | | 180k |
| 3708 | 100k | Ver 400 |
| 3713 | est ser | 390k |
| 5620 | 3µ3 | 6µ8 |
| 5621 | 3μ3 | 6μ8 |
| 9619 | | jumper |

| forP87C055BBPNB (South America) | 21" | 25'' |
|---------------------------------|------|--------|
| 2620 | - | 1μ |
| 2621 | 22n | |
| 3708 | 100k | |
| 3713 | | 390k |
| 9619 | | jumper |

C3 D2 C2 A6 A3 A6 C3 C2 C3 B4 C5 B2 C3 A6 A1 D1 B5

Multisound panel / Panel multisonido



List of abbreviations / Lista de abreviatures

Status signal; pulled "low" by NICAM panel if NICAM available

the sound at system search

| +95/+115 | +95/+115 Supply voltage from the power supply to the line output stage | NIL | Non Interface |
|------------------|----------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------|
| 2CS | Two carrier system (stereo sound system with 2 different sound carriers | NOT-SVHS | Status signal; "open" if SVHS connector interted and "high" if SVHS |
| | for L+R and 2R sound info) | | connector not inserted |
| 4_5 MHz | Status signal; "low" sound trap also blocks 4.5 MHz and SAW filter | NTSC | National Television System Committee |
| | adjusted at 33.4 MHz (for NTSC M) | OSD (DOS) | On Screen Display (in diagrams Display On Screen) |
| A/V* | Status signal; "high" for external CVBS, "low" for internal CVBS | P8 | Play Back |
| A/V | Status signal; "low" for external CVBS, "high" for internal CVBS | PLL | Phase Locked L∞p |
| A/V(8V) | Status signal; "low" (0V) for external CVBS, "high" (8V) for internal CVBS | POR | Power On Reset |
| A/V" + C | A/V' status signal with chrominance part of SVHS superimposed on it | PROT_160 | Status signal; switching set in standby in case be aim current is too high |
| AF1 | Demodulated audio signal L + R (so low frequency audio signal) | | (so BCI too low) |
| AF2 | Demodulated audio signal 2R (so low frequency audio signal) | PROT_95/115 | Status signal; switching set in standby in case +95 exceeds 110V/+115 |
| AFC | Automatic Frequency Control | | exceeds 130V |
| AGC | Automatic Gain Control | QSS | Quasi Split Sound; Extracts L+R and 2R Lf audio output and SIF info |
| AUDIO_INT | Volume controlled LF audio signal from pin 50 IC7225-6F | | from tuner IF |
| | (mono FM sound decoder) to Multisound panel | R-INT | Low frequency 2CS demodulated (IC7800)sound from R-channel |
| AUDIO_OUT | Not volume controlled LF audio signal from pin 1 IC7225-6F | RC5 | Remote Control 5 system |
| | (mono FM sound decoder) via 2CS panel to BTSC or NICAM | RGB | Red Green Blue |
| BASSBOOST | Status signal; "low" for bassboost "on" | SAP | Second Audio Program |
| BCI | Beam Current Info; If beam current increases the BCI signal decreases | SAP_AVAIL | Status signal; pulled "low" by BTSC panel & SAP is available |
| BF VOLUME | Pulse width modulated volume control signal from µP before Volume | SAP_ON | Status signal; "low" for SAP selected |
| - | Control Panel | SAW | Sawtooth signal coming from frame IC7400which is inverted and |
| BIMOS 52 | Signal coming from pin 52 IC7225-6B to pin 36 IC7225-6E preventing | | integrated to an inverted parabola for E/W prrection in 25" |
| | IC7225 being "hanged" at ESD flashes | SCL | Clock of the I ² C-bus |
| BS1 | For VST sets bandswitching signal, for PLL sets SDA from I ² C | SDA | Data of the I ² C-bus |
| BS2 | For VST sets bandswitching signal, for PLL sets SCL from I2C | SDM | Service default mode |
| BTSC | Broadcast Television System Committee (L-R and L+R) | SEC | Status signal; "low" forces IC7225-6C to S (CAM (Sequential Couleur à |
| C-REAR | Chrominance part from SVHS signal | | Memoire) chroma decoding mode |
| CRT | Picture tube | SHARPNESS CONTROL | Provision for possible future enhanced shappness control features |
| CVBS | Colour Video Blanking Sound | SIF | Second Intermediant Frequency; Signal wittonly audio info on 5.5, 5.74, |
| CVBS' | Signal with only audio info on 5.5, 5.74, 6.5 and/or 6.74 MHz sound | | 6.5 and/or 6.74 MHz sound carrier(s) (samesignal as CVBS') |
| | carrier(s) (same signal as SIF) | SM | Service mode |
| CVBS INT | Off-air CVBS (from tuner) after sound trap to I/O + interface panel | SOUND ID | Status signal; pulled "low" by multisound pale if current selected sound |
| EEPROM | Electrical Erasable Programmable Read Only Memory | | system is not correct |
| EHT | Extra High Tension (25 kV) | SOUND IF | LF sound signal from Multisound panel to FM mon @ decoder IC7225-6F |
| EXT (Y) | CVBS from I/O + interface panel (EXT) or luminance part of SVHS (Y) | SPATIAL | Status signal; "high" gives spatial mode |
| FM-MONO | Low frequency FM demodulated sound from IC7225-6F | STATUS | Status signal; DC level at positive side C2 1/7 "hig In" if headphone inserted |
| FRONT-ID | Status signal only used if front AV IN is present; "high" if CVBS front | | and "open" if no headphone |
| | plug is inserted so FRONT AV and "low" for REAR AV | STEREO/MONO | Status signal; "low" for stereo, "high" for mino |
| HOR | Horizontal | STEREO AVAIL | Status signal; pulled "low" by BTSC decoderif ster eo sound is available |
| HUE | Tint adjustment for NTSC system | STROBE | Strobe signal from microprocessor to control IC7132 at multisound panel |
| I ² C | Digital control bus of the microcomputer | SWITCHOFF SPOT | Status signal equal to standby status signaldirectly activating blanking at |
| 1F | Intermediate Frequency | | switching set to standby |
| IF | IF signal from tuner to QSS panel | TINT | Pulse width modulated control signal for hurcontrol |
| JUNC | Power supply voltage coming from volume control panel supplying | TRANS ID | Status signal; "high" for hor, sync, present a vide oidentification |
| | saturation control at diagram C | V-in | The DC voltage across C2505 present at pi 11 of the primary side of the |
| KAR SUPPLY | Supply voltage for Karaoke (optional) | | transformer |
| L-INT | Low frequency 2CS demodulated (IC7800) sound from L-channel | V-VARI | Tuning voltage (0-30V for VST, 30V for PL t |
| MPX | Multiplexed BTSC signal | VG2 | Voltage on Grid 2 of the picture tube |
| MUTE | Status signal; equal to SOUND-ID status signal from multisound muting | VST | Voltage Synthesized Tuning |
| | the sound at system search | Y | Luminance part of the video signal |

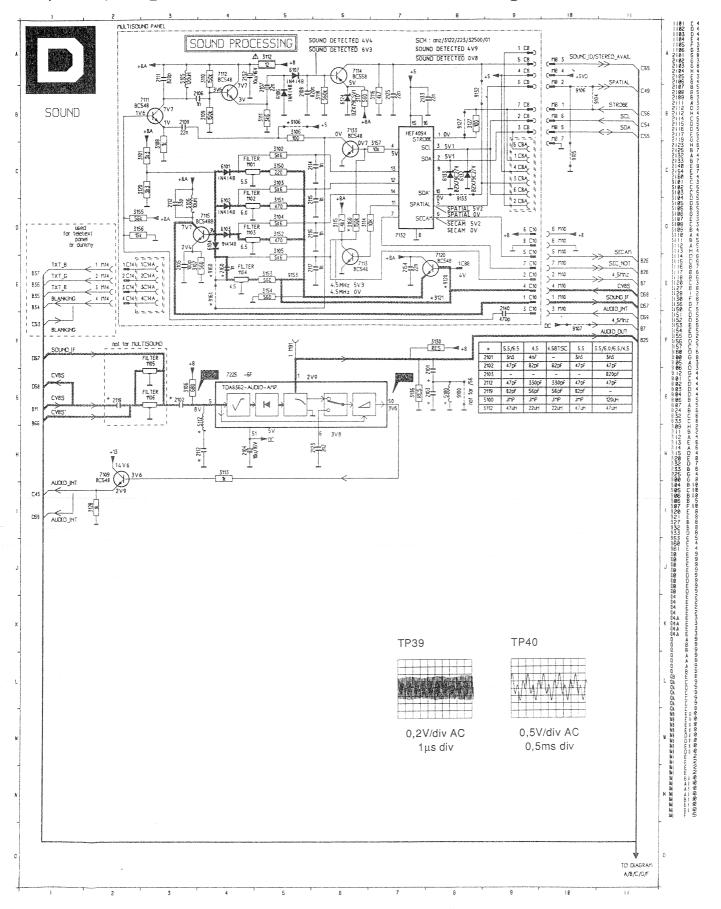
| C10 | | M10 | C8 | | M8 | C8A | and the common production and the common production of the common and the common | A8 |
|----------------------------|--------------------------------------------------------|----------------------------|-----------------------|---------------------------------------------|-----------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 1 2 3 4 5 6 | → SOUND IF → 4.5MHz ← AUDIO - INT ← CVBS → SECAM ← +8V | 1 2 3 4 5 6 | 1 2 3 4 5 | GND SCL SDA +5VD SOUND ID/ STEREO AVAIL | 7 6 5 4 3 | 1 2 3 4 5 6 | ── NC ── GND ── MUTE ── NC ←> SDA ── SCL | 6 5 4 3 2 |
| 8 | → SECAM NOT — GND | 7 8 | 6 7 | → SPATIAL → STROBE | 1 | | | CL 48532008/11 27015 |

Y-REAR

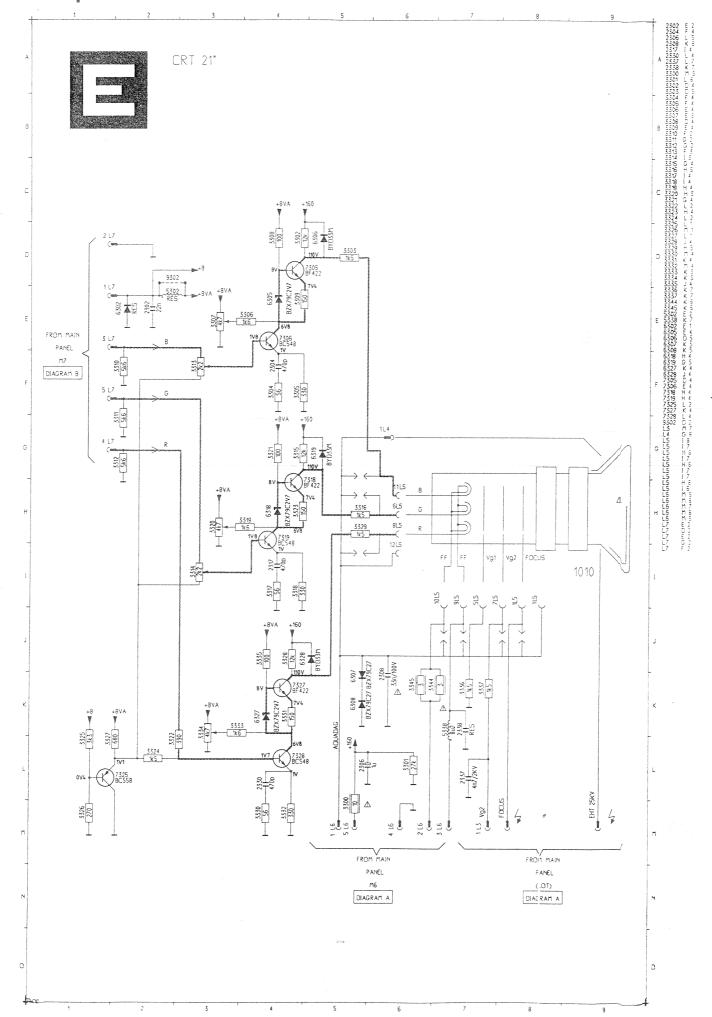
Luminance part of the video signal Luminance part from SVHS signal

NICAM_AVAIL

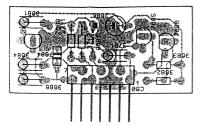
Multi, dual, single sound / Sonido multi, duale, single



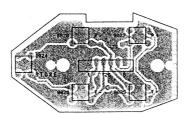
| C14 | | M14 | C14A | en in version de mentre de la fina de la mondation de la fina de menção de la recipio de colonida de colonida d | 121 |
|-----|------------|-----|------|-----------------------------------------------------------------------------------------------------------------|-----|
| 1 | → TXT B | 1 | 1 | → TXT B | 4 |
| 2 | → TXT G | 2 | 2 | -← TXT G | 3 |
| 3 | → TXT R | 3 | 3 | -<- TXT R | 2 |
| 4 | → BLANKING | 4 | 4 | - BLANKING | 1 |



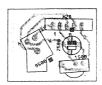
Volume control panel



Top control panel



LED + IR panel



| C60 | | M60 |
|-----------------------|-----------------------|-----------------------|
| 1 2 3 4 5 | → VOLUME 1 → VOLUME 0 | 7 6 5 4 3 |

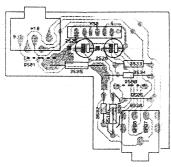
CL 46532008/11H 270194

| T24 | The state of the s | M25 |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 1 | ESD GND | 1 |
| 2 | → 13UP → 16UP | 3 |
| 4 | ->- 15UP | 4 |
| 5 | → 14UP | 5 |
| 6 | GND | 6 |

CL 46532008/11K 270194

| | LED + IR pa | 32 J | 3105 3106 3106 3110 31112 3115 3116 3121 3124 3126 3130 3135 3136 3137 3140 3141 3143 3144 3145 3155 3156 3157 3155 3156 |
|-------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H26 | -≪ A2 — GND | M26 | 3160 3161 3162 3163 3164 3165 3166 3166 |
| 3 4 5 | → +5V → COMMON- KATHODE → IR | 3 4 5 CL 46532008/ | 3168 3169 3170 3171 3172 3173 3174 3175 |
| ************************************** | A30 - STATUS 6 - +R 5R 4 - GND 3 - +L 2L 1 CL 46532006. | | 3177 3178 3179 3180 3180 3181 3182 3183 3184 3185 3186 3187 3190 3192 3193 3193 3193 3193 3193 3193 3193 |
| A1 1 2 2 3 4 4 5 5 6 6 7 A1 1 2 2 3 4 4 5 5 6 6 7 7 A1 1 1 2 3 3 4 4 5 5 6 6 7 7 A1 9 1 1 | (NICAM) | N1 7 6 5 4 3 2 1 1 5 4 3 2 1 1 LS -L | 3214 5 4 3215 6 8 3216 6 8 3220 1 5 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 3221 6 8 322 |
| 1 2 3 A20 1 2 3 A22 | → +SUB → +SUB → +SUB → +SUB | +L LS +SUB -SUB A22A | 3256 E 3257 F 3258 F 3260 F 3261 E 3263 E 3264 F 3265 E 3266 C 3267 B 3268 B |
| 3 | — GND → -SUB | 2 1 3532008/11P 270194 | 3269 B 3270 G 3271 G 3272 E 3273 H 3275 E |

| Headphone | panel |
|-----------|-------|
|-----------|-------|

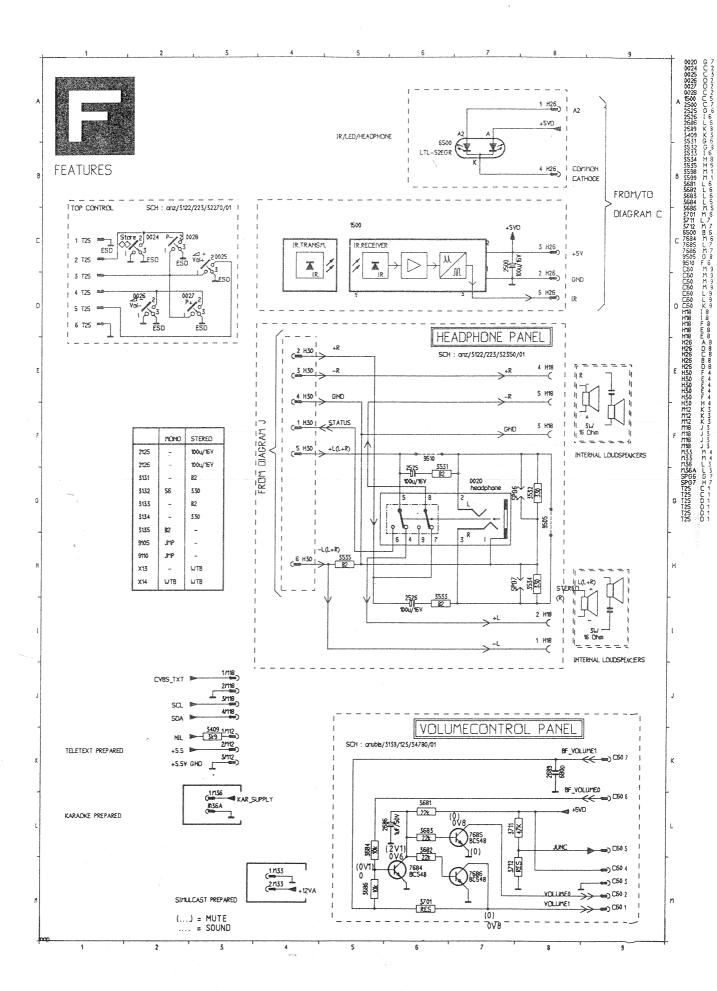


| LS | H30 | | A30 |
|----------------------|-----------------------|---------------------------|----------------------------------------------------------------|
| -L +L -R +R | 1 2 3 4 5 | → STATUS - +RR - GND - +L | 6 5 4 3 |
| | -L +L -R | -L 1 +L 2 3 -R 4 | -L 1 → STATUS +L 2 ← +R 3 ← R -R 4 ← GND +R 5 ← +L |

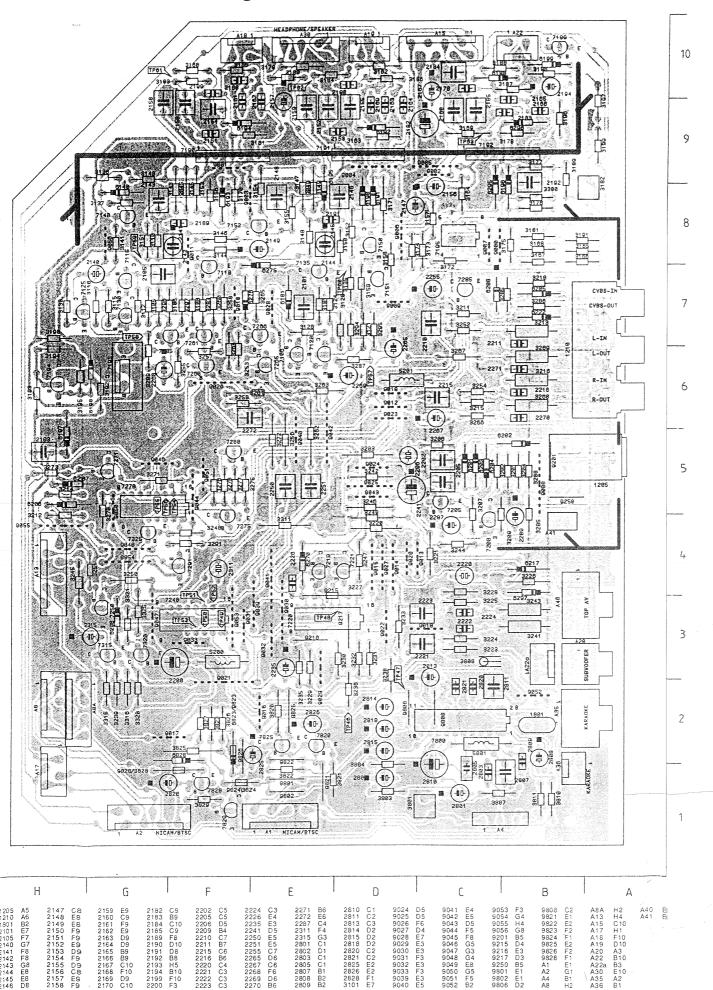
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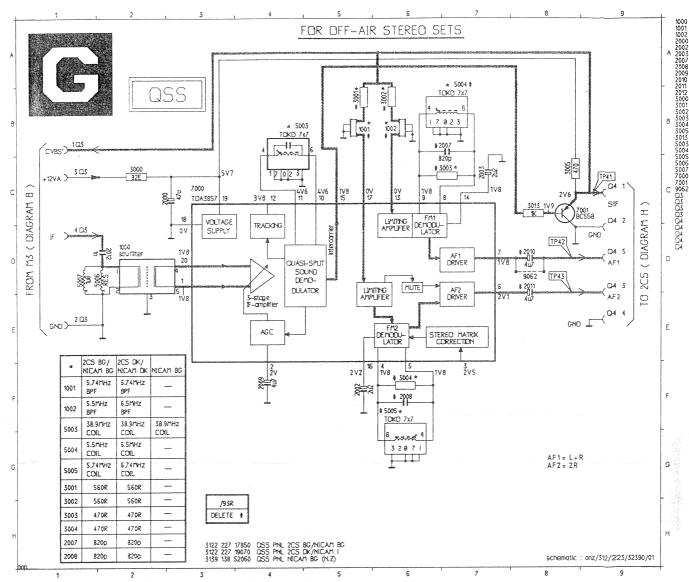
| A15 | | M15 | A8 | | C8A | A4 | | Q4 | A1 | (NICAM) | N1 |
|-----------------------|------------------------------------|----------------------------|-----------------------|----------------------------------------------|------------------|-----------------------|---------------------------------------------------------|-----------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 1 2 3 4 5 | | 8 7 6 5 4 3 | 1 2 3 4 5 | SCL SDA NC MUTE GND NC | | 1 2 3 4 5 | SIF —— GND —— AF2 —— GND —— AF2 | 1 2 3 4 5 | 1 2 3 | MICAM / BTSC - R - OUT GND NICAM / BTSC - L - OUT FM - GND | 7 6 5 |
| 7 8 | —— GND ——— +13V | 2 | A8A | | M8 | A2 | (NICAM) | N2 8 | 5 | (AGND 3) -> FM - MONO | 3 |
| A13 | | M13 | 1 2 | — NC — SCL | 7 | 2 | NC | 7 | 6 7 | → IF - GND → SIF | 2 |
| 1 2 | → EXT -≪- AV | 8 | 3 4 | <⇒ SDA —— NC | 5 | 5 | → NICAM - AVAIL → SDA | 5 | A1 | (BTSC) | B1 |
| 3 4 5 | CVBS INT EXT GND AV + CHROMA | 6 5 4 | 5 6 7 | MUTE GND NC | 3 2 1 | 6 7 8 | SCL — GND —+8V | 3 2 1 | 1 2 | NICAM / BTSC - R - OUT GND | 7 |
| 6 7 | - AUDIO OUT - GND | 2 | A40 | | F40 | A2 | (BTSC) | B2 | 3 | → NICAM / BTSC - L - OUT | 5 |
| A17 | → +8V → SPATIAL | 1 M17 | 1 2 3 4 | CVBS - GND CVBS - FRONT FRONT - ID R - FRONT | 6 5 4 3 | 1 2 3 4 | → STEREO/MONO → SAP - ON ← STEREO - AVAIL ← SAP - AVAIL | 8 7 6 5 | 4 5 6 7 | | 4 3 2 1 |
| 2 | STEREO/MONO | 3 | 5 | AUDIO - GND | 2 | 5 | NC | 4 | A19 | | LS |
| 4 | NICAMAVAIL SOUNDID / STEREO AVAIL | 1 | A30 | -> | H30 | 7 8 | — GND ▶ +8V | 2 | 1 2 3 | → -L — GND → +L | -L +L |
| A36 | | M36 | 2 | → +L — GND | 5 | A18 | ->B | LS | A20 | Annual per a residencia referencia constitui del residencia e constitui del constitui | LS |
| 1 2 | SUPPLYA GND | 2 | 5 | -> | 3 2 | 2 3 | | -R +R | 1 2 | -> +SUB GND | +SUB |
| A41 | | M41 | 6 | → STATUS | 1 | | | | 3 | ->- -SUB | -SUB |
| 1 | GND | 1 | | | | | | | A22 | 2 010 | A22A |
| | | | | , | | | | | 1 2 3 | → +SUB — GND → -SUB | 3 2 |

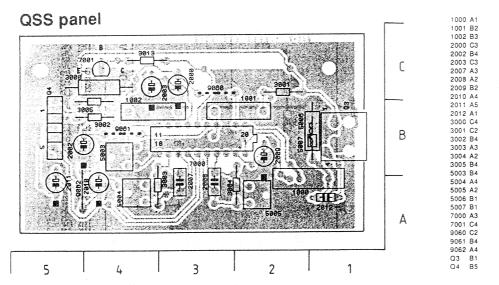
Volume control / Top control / LED + IR / Headphone



2CS and I/O + Interfacing







| Q3 | | МЗ | Q4 | | A4 |
|---------|-------------------------------------|------------------|------------------|----------------------------------|------------------|
| 1 2 3 4 | → CVBS' — GND → +12VA → IF | 1 2 3 4 | 1 2 3 4 | → SIF — GND → AF2 — GND | 1 2 3 4 |
| | | | 5 | → AF1 | 5 |

Description QSS, 2CS, I/O+interfacing and amplification

QSS (Diagram G)

- From the IF signal, coming from the tuner, the following signals are extracted on the QSS panel:
 - AF1; L+R demodulated low frequency audio signal for 2CS stereo sound dematrixing in IC7800.
 - AF2; 2R demodulated low frequency audio signal for 2CS stereo sound dematrixing in IC7800.
 - * CVBS' = SIF; Audio info on sound-carrier for NICAM or BTSC sound decoding (so not demodulated yet). In this CVBS'/SIF the following audio signals can be present:
 - 4.5 MHz for M reception, 5.5 and 5.74 MHz for PAL BG 2CS stereo, 6.5 and 6.74 MHz for PAL DK 2CS stereo, 6.0 MHz for PAL I mono, 5.85 MHz for NICAM BG and 6.25 MHz NICAM I.
- For <u>2CS BG stereo</u> sets filters 1002/1001 and coils 5004/5005 are tuned at resp. 5.5 and 5.74 MHz and 5003 at 38.9 MHz.
- For <u>2CS DK stereo</u> sets filters 1002/1001 and coils 5004/ 5005 are tuned at resp. 6.5 and 6.74 MHz and 5003 at 38.9 MHz.
- For NICAM BG or NICAM I only sets, only coil 5003 is present and tuned at 38.9 MHz.
- If QSS is present CVBS from IF-detector IC7225-6A is only used for video processing and not for audio processing any more. Also if QSS is present C2119 (diagram D) is not present. The sound path is as follows (see diagram B, D and G):
- * In case the <u>multisound panel is present</u> CVBS from the IF-detector IC7225-6A is not used for multisound as jumpers 9120 and 9121 on multisound panel are not present. CVBS' from QSS panel is used for multisound panel via a wire from 1M50 to 1C88 from main carrier to multisound panel (jumper 9153 on multisound panel is present). After passing through the correct sound carrier on the multisound panel, the undemodulated audio signal is fed (via SOUND_IF) to IC7225-6F for FM mono sound demodulation.
- In case the <u>multisound panel is not present</u> CVBS' from QSS panel is fed to IC7225-6F via a wire from 1M50 to 1M50A and filters 1105 and/or 1106 (CVBS is not used as C2119 is not present if QSS is present).

2CS (Diagram H)

- 4 main functions of IC7800 (TDA9840):
 - Dematrixing AF1 (L+R) and AF2 (2R) to L and R audio signals. R3801 is used to align the stereo separation.
 - * Detect MONO, STEREO or DUAL available; sénd this info to μC via I²C.
 - Source select between "internal" L & R (extracted from pin 7 and 8 IC7800) or L & R from input pins 9 & 10 IC7800. Control from μC via I²C.
- * Source select DUAL I or DUAL II via I²C from μC.

 If no NICAM or BTSC panel is present, then jumpers 9801 and 9802 are present passing through AUDIO_OUT from FM-mono detector IC7225-6F to pin 9 and 10 IC7800.

 If NICAM or BTSC panel is present, then L-OUT and R-OUT (low frequency audio signals from NICAM or BTSC) is fed to pin 9 and 10 IC7800.
- Jumper 9821 is present in case of BTSC reception via the QSS panel; by then AF1 signal is used for BTSC decoding and not the AUDIO_OUT signal from IC7225-6F.
- The <u>amplitude</u> of the AUDIOOOUT signal from IC7225-6F is adapted to the same level as L and R internally in IC7800 by TS7820 and TS7825.
- If multisound panel is present <u>TS7828</u> and <u>TS7829</u> is present. TS7829 will mute FM-MONO signal while multisound panel is searching for the correct sound system (while searching SOUND_ID and so MUTE is "low"; < 0.8V).

I/O + INTERFACING (Diagram I)

- IC7220 switches between REAR AV-IN (from SVHS or SCART) OR FRONT AV-IN.
 - The FRONT-ID status signal switches IC7220 and is "high" in case CVBs cinch in FRONT-AV panel is inserted (mechanical switch). So Front AV has priority to Rear AV if both are present.
- IC7240 switches between AV-INT (aerial) OR AV-EXT

(from REAR or FRONT via IC7220). The A/V status signal switches IC7240 and is "high" for INT and "low" for EXT.

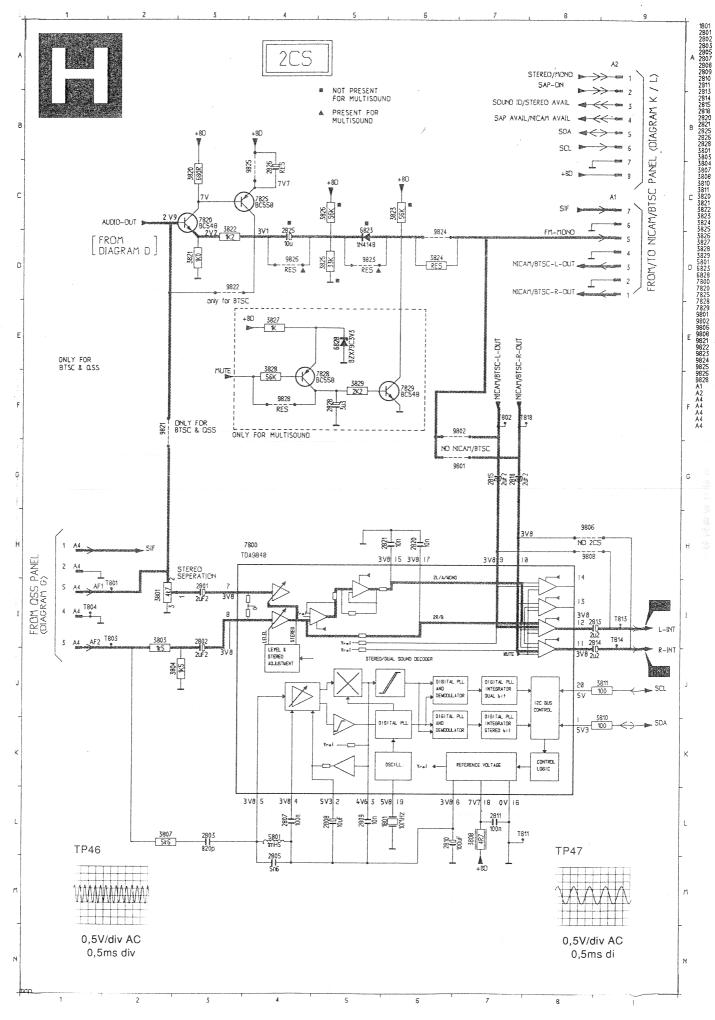
- IC7270 switches between:
 - * Stereo **OR** mono sound (input pin 12-13). If status signal STEREO/MONO is "low" for stereo and "high" for MONO (L-OUT and R-OUT are shortcircuited).
 - CVBS-INT/EXT from IC7240 <u>OR</u> CVBS from SVHS to CVBS-monitor out (input pins 12-13 IC7270).
 - * A/V' **QR** A/V'+C (A/V'+C is A/V' status signal with superimposed on it the chrominance part of the SVHS) (input pins 1-2 IC7270).
- Switching for output pins 4 and 15 (resp. CVBS-monitor out and A/V' with or without C-SVHS) are driven by pin 9 and 10 IC7270 in parallel via the status signal:
 - NOT-SVHS is "open" (or high ohmic) for SVHS connector inserted and "high" for SVHS connector not inserted (mechanical switch).
 - * A/V(8V) is "high" for INT and "low" for EXT (so the same polarity as the status signal A/V but then switching with 0V and 8V).
 - * F-ID is "high" if CVBS front plug is inserted (so FRONT AV) and "low" if not inserted (so REAR AV). The F-ID status signal will only be used if Front AV panel is present.
- If <u>SVHS plug is not inserted</u>, then NOT-SVHS is "high". Both switches are in the lower position so CVBS-INT and A/V' without chroma is selected at pin 15-4 IC7270 independent of F-ID and A/V(8V).
- If <u>SVHS plug is inserted</u>, then NOT-SVHS is "open".
 * Only if F-ID and A/V(8V) are both "low" (so REAR AV and EXT AV selected) pin 9 and 10 IC7270 will be "low".
 - and EXT AV selected) pin 9 and 10 IC7270 will be "low". Both switches are in the upper "SVHS-position" (CVBS-SVHS to monitor out and A/V'+C to IC7225-6B). So SVHS has priority to REAR AV in cinches if both are inserted.
 - * If one or both F-ID and A/V(8V) are "high" pin 9 and 10 IC7270 will be "high".
 - Both switches are in the lower position (CVBS-INT/EXT from IC7240 to CVBS monitor out and A/V'+C).

AMPLIFICATION (Diagram J)

- SPATIAL; circuitry around TS7105, 7120, 7115 and 7130 is spatial circuitry.
- Spatial feature is activated if SPATIAL status signal is "high"

 HIGH PASS FILTER; This filter passes through the mid and high frequency ranges for the squeeter-amplifiers IC7190 and IC7191. For R-channel this filter is formed by C2141 and R3143 and R3153. For L-channel this filter is formed by C2144 and R3147 and R3154. If a headphone is connected the filters are deactivated to give full frequency range to
- IC7190 and 7191 for headphone (see STATUS).

 The <u>LOW PASS FILTER</u> for the subwoofer only passes through the low tones to IC7192. Low pass filter by C2167 and R3151, R3152 (R3157 for BASSBOOST "on", so "low") and by C2184 and R3169.
- IC7195 is used to determine the highest volume control level of VOLUME-0 and VOLUME-1. This highest control level is used for controlling the subwoofer amplifier at pin 5 IC7192.
- The <u>BIAS</u> voltage makes a stable collector current through TS7266 and TS7261 (diagram I) and a stable supply voltage for the spatial circuitry (diagram J) independent of a ripple on ±13V
- The <u>STATUS</u> status signal (DC at the positive side of C2157) is "high" if headphone plug is inserted and "open" if no headphone plug is inserted.
 - * If no headphone, STATUS is "open" so IC7195 can determine correct volume control level for the subwoofer amplifier.
 - If headphone is inserted, STATUS is "high" and so output of IC7195 is zero. The subwoofer is muted. Also TS7151 will not conduct any more, so C2149 will not block the low frequencies (low pass filtered by R3155 and C2148) of L+R at the basis of TS7152 any more. The L+R low frequencies will be added to the mid and high frequencies from the L & R channels and so make a full range sound to the headphone.
- If <u>HEADPHONE</u> is inserted the speaker sound is muted on the headphone panel.



_HP_L_L____GHHDCF1_JLLKJCDDCDDCGFF_DGHCCFFGFHHFDDCCDFCAHH1-11





0,5V/div AC 0,5ms div

TP49



0,5V/div AC 0,5ms div

TP50



0,5V/div AC 0,5ms div

TP51



0,5V/div AC 0,5ms div

TP52



0,5V/div AC 0,2ms div

TP53



0,5V/div AC 0,5ms div

TP54 = DC 4,5V

TP55



0,2V/div AC 20ms div

TP56



0,5V/div AC 0,5ms div

TP57



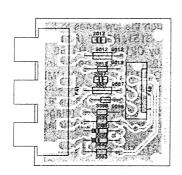
0,5V/div AC 0,2ms div

TP58



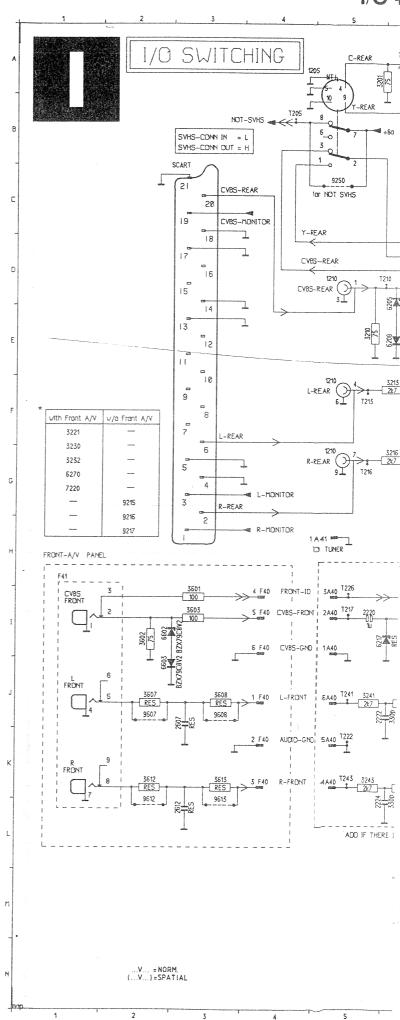
0,5V/div AC 0,5ms div

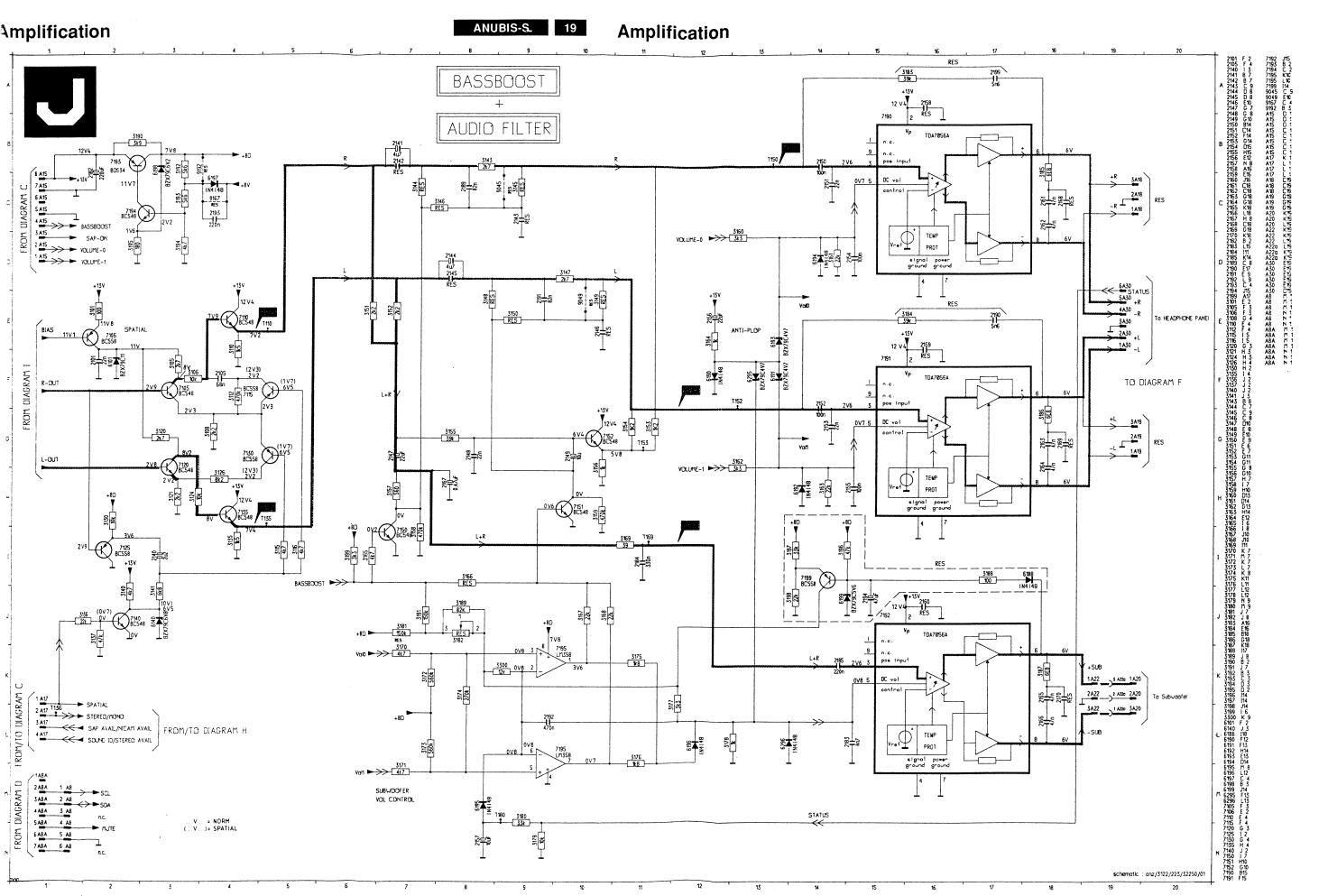
Front AV-IN panel



| F40 | | A40 |
|-----|-----------------|-----|
| 1 | ->- L-FRONT | 6 |
| 2 | AUDIO GND | 5 |
| 3 | -> R - FRONT | 4 |
| 4 | ->>- FRONT - ID | 3 |
| 5 | -> CVBS - FRONT | 2 |
| 6 | CVBS - GND | 1 |

CL 46532008/11N 270194





TP59

0,5V/div AC 0,5ms div

[P60



0,5V/div AC 0,5ms div

TP61



0,1V/div AC 0,2ms div

TP62



0,1V/div AC O,2ms div

TP63



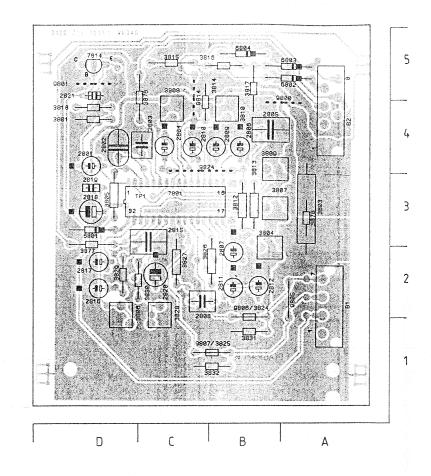
5 OV/div AC O,2ms div

9807 C1 9814 C4 9824 C3 B1 A2 B2 A4

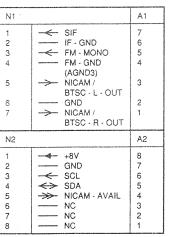
BTSC panel

| B1 | | | A1 |
|------------------|----------|----------------|--------|
| 1 | | NC | 7 |
| 2 | | IF - GND | 6 |
| 2 3 4 5 | - | FM - MONO | 5 |
| 4 | . ——— | FM - GND | 4 |
| 5 | ->- | NICAM / | 3 |
| | | BTSC - L - OUT | |
| 6 | | GND | 2 |
| 7 | ->- | NICAM / | 1 |
| | | BTSC - R - OUT | |
| B2 | | | A2 |
| 1 | T | +8V | 8 |
| 2 | | GND | 7 |
| 2 | | NC | 6 |
| | | NC | 5 |
| 4 | | NC | 0 |
| 4 5 | ->- | SAP - AVAIL | 4 |
| 6 | → | , | 4 3 |
| 4 5 6 7 | <u> </u> | SAP - AVAIL | 4 |

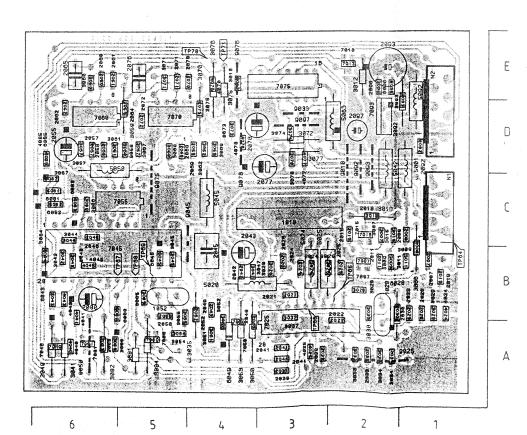
CL 45532008/11S 270194

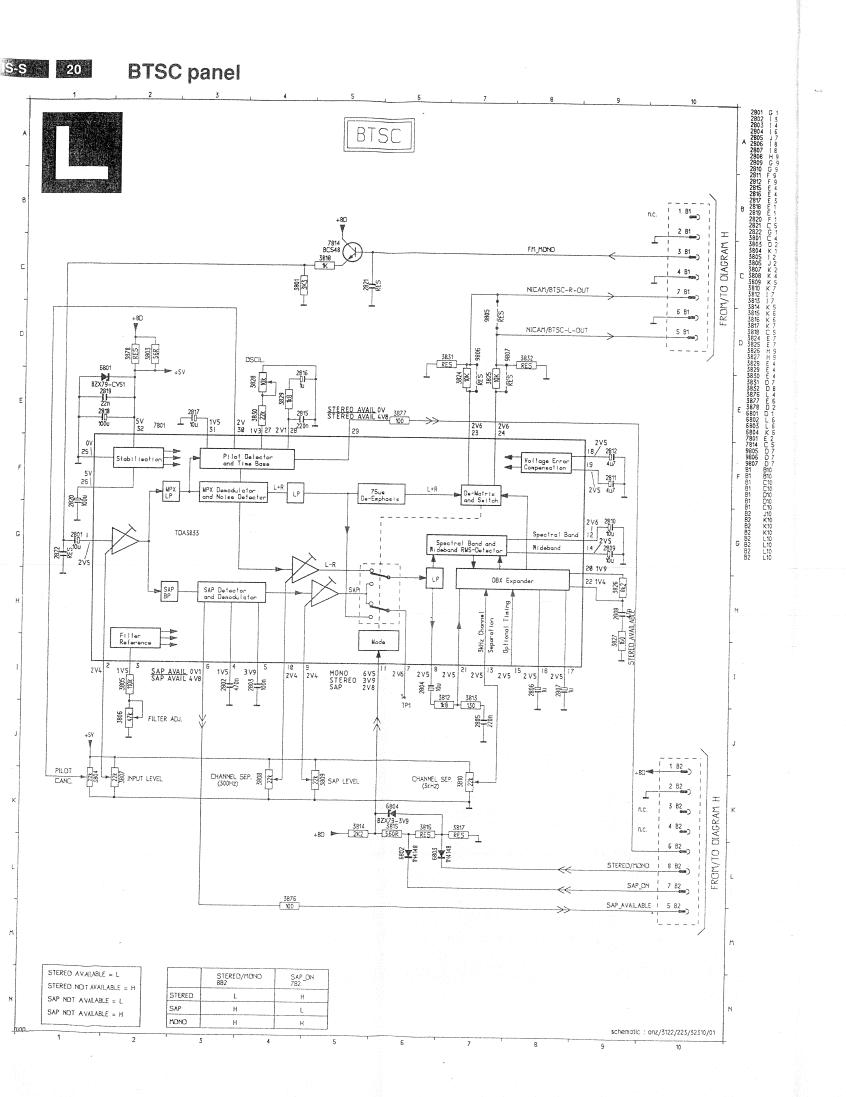


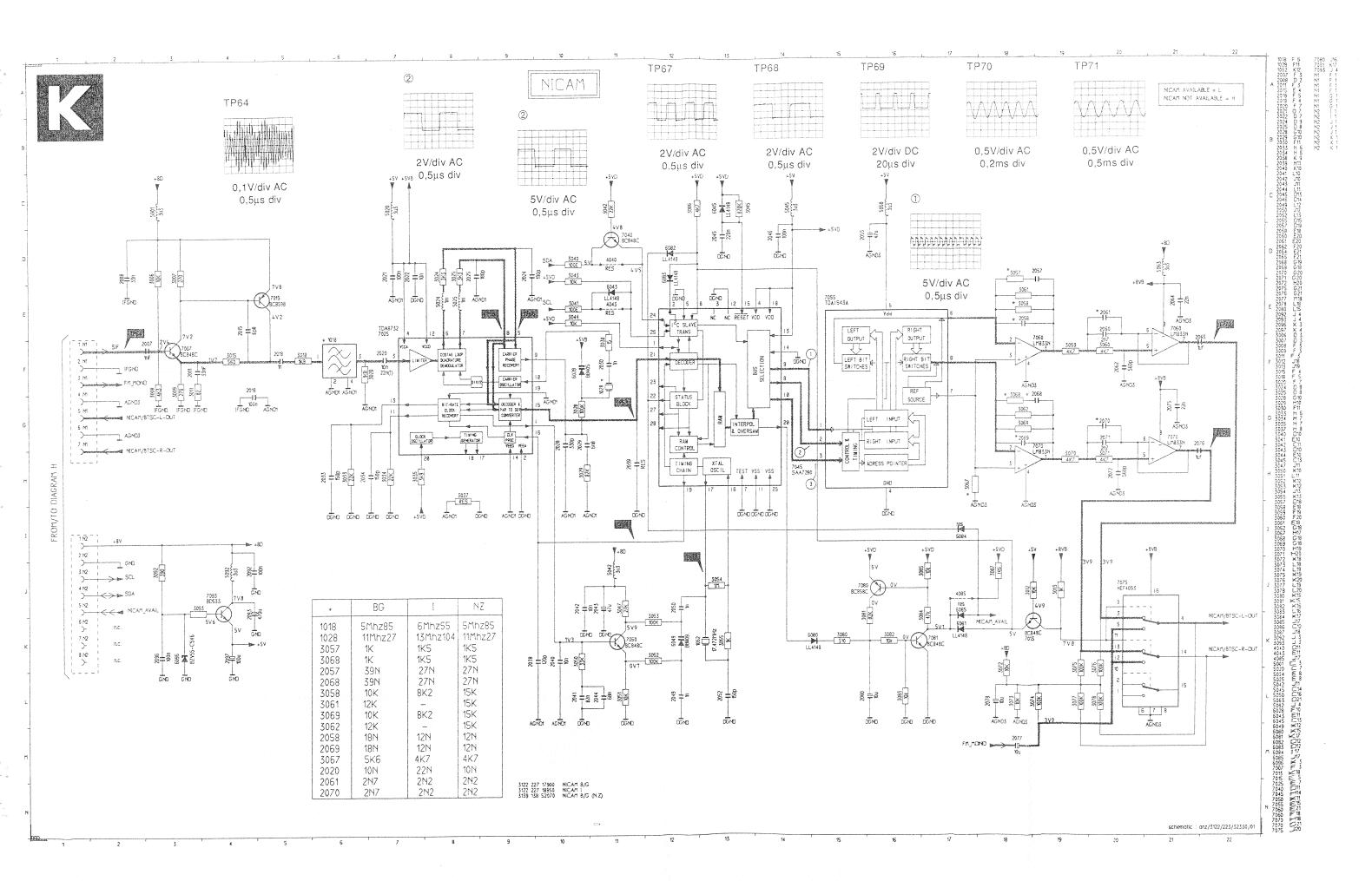
NICAM panel

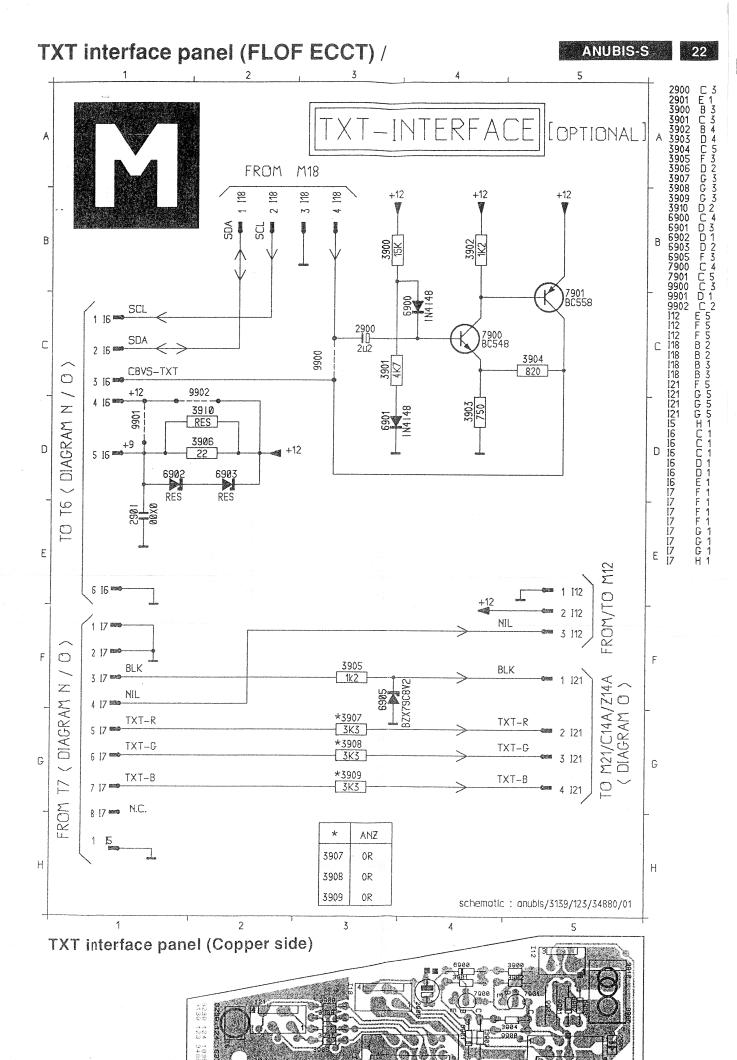


CL 46532008/11T 270194

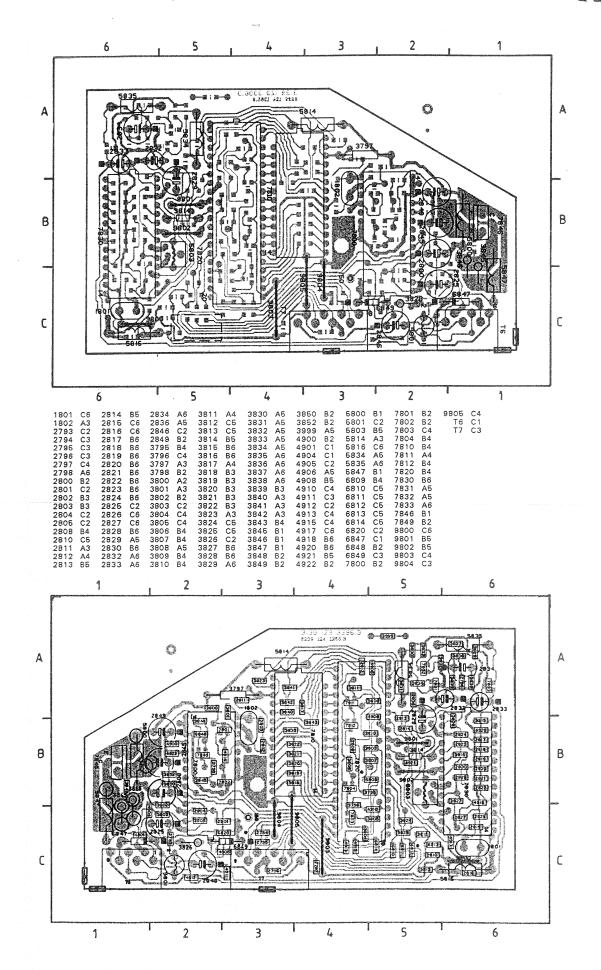


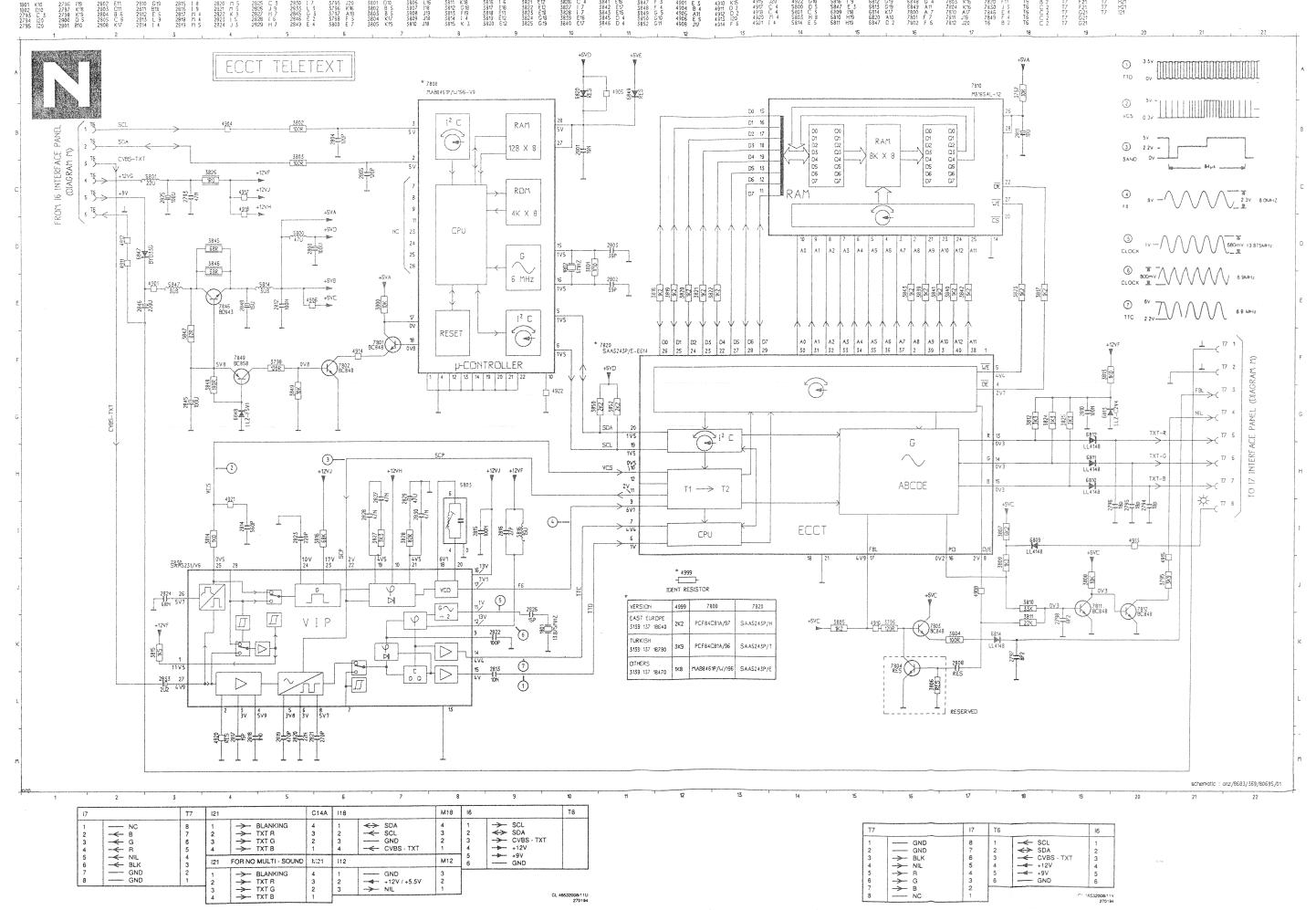






Panel interface TXT (FLOF ECCT)





7. Electrical adjustments

1. Settings on the carrier panel

1.1 +95V / +115V power supply voltage

Connect a multimeter (DC) across C2531. Set brightness at mid position and contrast at maximum. Apply a pattern generator with a colour bar. Adjust potentiometer 3512 to $+95V \pm 0.5V$, DC / $+115 \pm 0.5V$.

1.2 Horizontal centring

Is adjusted with potentiometer 3420.

1.3 Picture width (horizontal amplitude) 25" only is adjusted with potentiometer 3484.

1.4 East west correction 25" only

Is adjusted with potentiometer 3489

1.5 Vertical centring

Is adjusted with switch 3408.

1.6 Picture height

Is adjusted with potentiometer 3410.

1.7 Focusing

Is adjusted with the focusing potentiometer in the line output transformer 5445 (if necessary brightness at minimum and contrast at maximum).

1.8 RF AGC adjustment

Connect pattern generator (e.g. PM5518) to the aerial input with RF signal amplitude = 1 mV. Connect a multimeter (DC) at pin 5 of tuner. Adjust R3264 so that voltage at pin 5 of tuner is $7.5 \pm 0.5 \text{V}$ DC.

1.9 Picture demodulator adjustment

Connect a pattern generator (e.g. PM5518) with a cross hatch. Connect an oscilloscope (1µs/DIV) to pin 7 of IC7225 and adjust **L5260** so that the overshoot response is minimum, see Fig. 7.1. Select a colour bar signal and verify if the picture is alright.

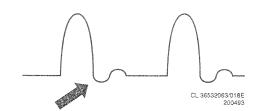


Fig. 7.1

1.10 Adjustment of 34.4 MHz carrier trap

(for full multi sets only, so -/56/57/69/70/93)

Switch off the set.

Disconnect pin 17 of the tuner by desoldering the V-cut at pin 17 of the tuner. Switch on the set and force it to M-reception via the second install menu. Connect a signal generator at 34.4 MHz at pin 4 of plug M3. Connect an oscilloscope (1 μ s/DIV) to pin 1 of the SAW filter 1015 and adjust **L5020** for minimum amplitude of the signal.

Resolder the V-cut to reconnect the tuner.

. Settings on the CRT panel

2.1 VG2 cut off adjustment

Connect a pattern generator (e.g. PM5518) and set it to white raster pattern.

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Set contrast and the Vg2 potentiometer (in line output transformer) minimum. Adjust with brightness control the top video level at pin 4 of plug L7 (on CRT panel) to the same voltage level as the emitter of transistor of transistor TS7325.

Note: store this value as Personal Preference (PP)!! Pre-adjust the black level preset potentiometers of each gun, 3307 (B), 3320 (G) and 3334 (R), to give a black level of 140V on pins 11, 6 and 8 on the picture tube socket.

Remove probe of voltmeter or oscilloscope. Adjust the Vg2 potentiometer until one of the colours just becomes visible. Adjust the **other** two guns by means of the corresponding resistors (3307, 3320 or 3334) until the colours just become visible or until the picture is white.

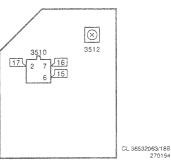
2.2 White-D adjustment

Use the same signal as prescribed in 2.1. Adjust contrast to such a level that red is good visible. Adjust potentiometers 3313 (B) and 3314 (G) to have a correct White-D picture.

Note: Store nominal values for contrast, saturation and brightness as Personal Preference when settings 2.1 and 2.2 have been carried out.

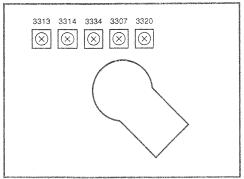
7513 14 5260 12805 12805 12805 12905 12905 12005 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 12131 1

POWER SUPPLY CONTOL PANEL



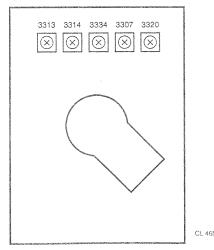
CRT PANEL 21"

MAIN CARRIER (component side)



CRT PANEL 25"

CL 36532063/18A



3. Adjusting the picture tube

Note:

The colour purity and convergence adjustments described hereafter need only be carried out if a completely new adjustment is called for or if a new picture tube has been fitted.

Otherwise, for instance after replacing the deflection unit, it will not be necessary to remove the rubberwedges (G in Fig. 4). corrections by means of the multi-pole unit will then suffice.

3.1 Colour purity (see Fig. 4)

- Loosen fixing screw "F" of the deflection unit a few turns.
- Move the deflection unit and remove the three rubber wedges "G".
- Slide the deflection unit forward as far as possible against the glass of the picture tube cone and tighten fixing screw "F" in such a manner that the deflection unit can be moved with some friction.
- Place the multi-pole unit in the position shown, turn screw "A" and turn securing ring 'B" counter clockwise.
- Let the apparatus face East or West and switch on the set.
 Supply a cross-hatch pattern and set brightness control
 - to maximum. Allow for a warming-up time of 10 minutes.

 Adjust the static convergence, using tabs "C" and "D" (if
- necessary, see procedure II).

 Switch off the green and the blue gun by disconnecting
- Switch off the green and the blue gun by disconnecting the resistors 3316 and 3303.
- By turning the colour purity rings with tabs "E", the
 vertical red bar is adjusted nearest to the centre of the
 screen, while the central horizontal line should be as
 straight as possible.
- Supply a white pattern signal and check that the red bar is in the centre of the screen. If not, switch on the cross-hatch pattern again and move the red bar in the right direction, taking care that the picture does not move too much in vertical direction.
- Supply the white pattern signal and move the deflection unit until the whole picture surface is uniformly red.
- 11. Switch on the green and the blue guns by reconnecting R3316 and R3303. No colour patches should occur in the white picture now obtained. If necessary a minor correction can be made by slightly turning the colour purity rings "E" and/or slightly moving the deflection unit.
- 12. Tighten screw "F" tightly.
- Proceed to the static and dynamic convergence adjustments.

3.2 Static convergence (see Fig. 4)

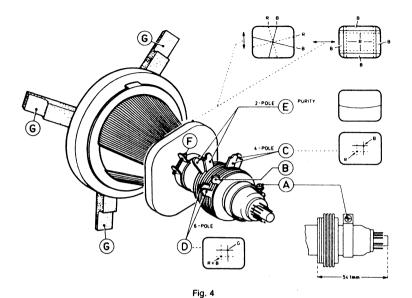
- Supply a cross-hatch pattern and allow for a warming-up time of 10 minutes.
- Swilch off the green gun by disconnecting resistor 3316 and turn locking ring "B" anticlockwise.
- By turning the four-pole rings with tabs "C", the red and blue cross-hatch patterns in the centre of the screen are placed on top of each other.
- Switch on the green gun by reconnecting 3316 and switch-off the blue gun by disconnecting resistor 3303.
- 5. By turning the six-pole rings with tabs "D" the red and green cross-hatch patterns in the centre of the screen are placed on top of each other.
- 6. Switch-on the blue gun again and tighten ring "B" again.

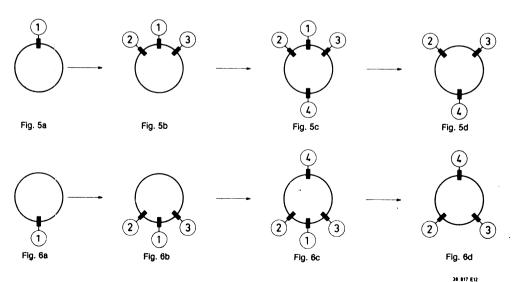
3.3 Dynamic convergence (see Fig. 5 and 6)

Remark:

The dynamic convergence is achieved by vertical and horizontal tilting of the deflection unit. To secure the right position of the deflection unit, three rubber wedges are fitted between the glass of the picture tube and the deflection unit, as shown in Fig. 5d or 6d.

- First check the colour purity and switch off the green gun by disconnecting resistor.
- Supply a cross-hatch pattern and switch off the green gun by disconnecting resistor 3316.
- 3. Eliminate the crossing of the central horizontal blue and red line and the crossing of the central vertical blue and red line, by vertical tilting of the deflection unit. If the position of the deflection unit is correct, then place rubber wedge 1, paper strip not removed, at the top (Fig. 5a) or at the bottom (Fig. 6a). Fig. 5a is applicable if the deflection unit is tilted upwards and Fig. 6a if the unit is tilted downwards.
- by horizontal tilting of the deflection unit, now both the horizontal blue and red lines in the upper and lower halves of the picture and the vertical blue and red lines on the left and right hand side of the picture are placed on top of the other.
 - If the position of the deflection unit is correct, then place wedges 2 and 3 with paper strips removed, as shown in Fig. 5b or 6b. Firmly press the adhesive sides of these wedges against the glass of the picture tube.
- Now place wedge 4 as shown in Fig. 5c or 6c and press on the adhesive side firmly.
- Remove wedge 1, to obtain the condition shown in Fig. 5d or 6d.
- 7. Switch on the green gun by reconnecting 3316.





PCS 73 713 GB

Electrical adjustments

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Settings on the QSS panel

38.9 MHz IF demodulation adjustment Connect a pattern generator (e.g. PM5518) to the tuner with a sound carrier but with no audio modulation on the carrier. Connect an oscilloscope to pin 1 Q4 (SIF output). Adjust coil L5003 to get minimal video ripple.

- AF1 (L+R) sound demodulation adjustment Connect a pattern generator (e.g. PM5518) to the tuner with sound modulation 1 kHz on both L- and R-channels. Connect an oscilloscope to pin 5 Q4 (AF1 output). Adjust coil L5004 to get maximum audio output.
- AF2 (2R) sound demodulation adjustment Connect a pattern generator (e.g. PM5518) to the tuner with 1 kHz sound demodulation on R-channel and no sound demodulation on L-channel. Connect an oscilloscope to pin 3 Q4 (AF2 output). Adjust coil L5005 to get maximum audio output.
- Settings on the 2CS + I/O + amplification
- Stereo channel separation adjustment Connect a pattern generator (e.g. PM5518) to the tuner with sound modulation 3 kHz on the L-channel and 1 kHz on the R-channel. Connect an oscilloscope to pin 12 IC7800 (L-INT or TP46). Adjust potentiometer 3801 to get optimal 3 kHz audio output.
- 5.2 Subwoofer volume adjustment (optional) Adjust subwoofer volume in respect with squeeters volume via potentiometer R3182.
- 6. Settings on NICAM stereo panel
- 6.1 Nyquist filter

The NYQUIST filter 1018 is factory adjusted and may/can NOT be adjusted by service.

- 7. Settings on BTSC panel
- 7.1 Input gain adjustment Adjust R3807 for optimal BTSC reception
- 7.2 Oscillator adjustment Connect pin 31 to pin 32 (+5V) of IC7801 by a 2k7 resistor. Connect an oscilloscope (or frequency

counter) to pin 7 of IC7801 and align R3828 at 15,734 kHz (pilot frequency).

7.3 Pilot cancelation adjustment Select an off-air BTSC channel with a strong pilot. Connect an oscilloscope at pin 7 of IC7801 and adjust R3804 for minimum 15,734 kHz, then R3806 for minimum 15,734 kHz and then again R3804 for minimum 15,734 kHz.

7.4 Stereo channel separation at 300 Hz

Connect an BTSC generator (e.g. Leader Model LMS-238P) to the tuner input. Set generator to an internal frequency of 300 fiz at L-signal only with Pilot and SAP "on" and Level Control pushed in. Connect AC millivoltmeter at pin 23 IC7801 (R-output) and align R3808 for minimum amplitude at pin 23.

Stereo channel separation at 3 kHz

Connect an BTSC generator (e.g. Leader Model LMS-238P) to the tuner input. Set generator to an internal frequency of 3 kHz at L-signal only with Pilot and SAP "on" and Level Control pushed in. Connect AC millivoltmeter at pin 23 IC7801 (R-output) and align R3810 for minimum amplitude at pin 23.

If no BTSC generator available try to adjust R3808 and R3810 for optimal stereo channel separation over the entire audio spectrum by listening.

7.6 SAP level alignment

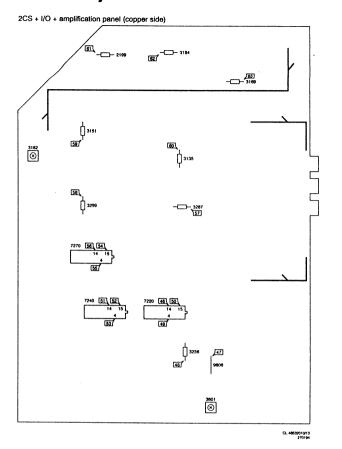
Select a BTSC channel with dual language. Switch with the remote control from language I to language II and adjust R3809 until both I and II have approx. same sound amplitude.

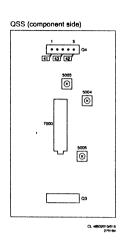
IC7801 can be forced by a DC voltage at pin 11: Pin 11 = 2.5V → SAP (second audio

program)/Language II

Pin 11 = 4.25V → Stereo mode Pin 11 = 7.2V → Mono mode

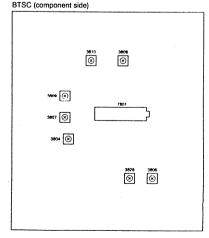
Electrical adjustments



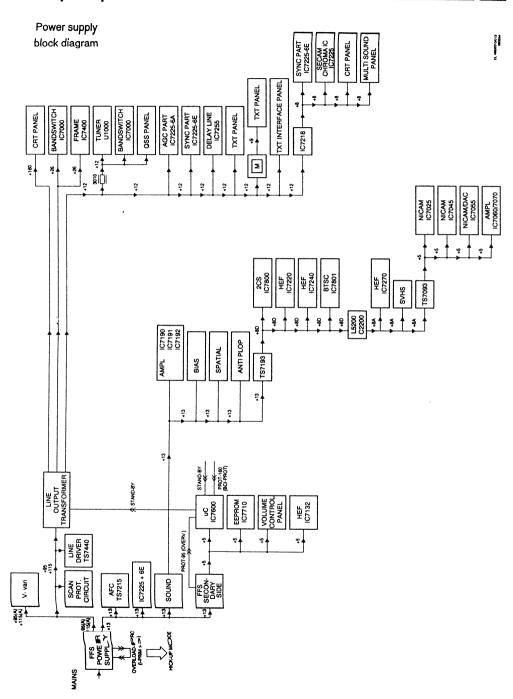


NICAM (copper side)

CL 46532010/14 270194



CL 44532010/017



Repair tips

Service position for video and audio faultfinding

For video related faultfinding the main carrier can be disconnected from the TXT panel and the 2CS+I/O+AMPLIFICATION panel as the set will automatically switch to internal CVBS (except for SECAM chroma which signal path is via the 2CS+I/O+AMPLIFICATION panel). Of course for CVBS I/O faultfinding the 2CS+I/O+AMPLIFICATION panel should be connected to the main carrier.

For audio related faultfinding first measure pin 1 IC7225-6F (AUDIO OUT LF audio signal inclusive BTSC and NICAM info) and TP 42 and 43 at resp pin 5 and 3 of connector Q4 (AF1 and AF2):

If all OK, the fault is on the 2CS+I/O+ AMPLIFICATION or NICAM or BTSC panel If not all OK, the fault is on the main carrier (QSS or IC7225-6F

Error messages

Via I²C the μC can detect malfunction of all I²C controlled IC's. Maximal 3 error codes can be displayed indicating maximal 3 different errors detected at switch on (see Table 8.1). These error codes will be displayed via OSD, only in normal operation mode after every switch on of the set. Error codes detected in the past can be displayed in the Service Mode (see section 3.1.3).

| Error code | Error description | Possible defective component |
|---------------|------------------------------------|------------------------------|
| 1 | Not used (only for PLL tuner sets) | Not used |
| 2 | EEPROM Checksum Error | Set not correct configured |
| 3 | Simulcast tuning | TDA8442 |
| 4 | 2CS Stereo decoder | IC 7800 |
| 5 | Internal RAM error | IC 7600 |
| 6 | EEPROM | IC 7710 |
| 7 | NICAM stereo decoder | IC 7045 |
| 8 | Not used | •• |

Table 8.1

Service Default Mode

3.1 Entry of the Service Default Mode:

Shortcircuit the 2 Service Default Mode pins on the main carrier (M28 and M29 near μC) for a short moment while switching on the set. An "S" on the screen will indicate the activated Service Default Mode

Functions of the Service Default Mode:

In the Service Default Mode the set is in a pre-defined condition: All controls at 50% except volume 25%, VST sets tuned at program 1 and PLL sets tuned at 475.25 MHz (with auto system search). All DC voltages & oscillograms indicated in the Service Manual are measured in the Service Default Mode.

Exit of the Service Default Mode:

Standby and switching off the set (of course the Service Default Mode pin shortcircuit has to be removed by

Service Mode

Entry of the Service Mode:

Shortcircuit 2 Service Mode pins on the main carrier (M31 and M32 near µC) for a short moment while switching on the set (EEPROM-protection will automatically be deactivated at entering the service mode, and activated again at exiting the service mode via standby (content of address 255 will be adapted automatically, so this does not have to be checked)).

Functions of the Service Mode:

Functions of the Service Mode are: display the software number and version, set all software controlled options, display error codes detected in the past and erase the error code detected in the past.

4.2.1 Display the software number and version. In the Service Mode the following menu will appear:

> ANUBIS-S AHV V1.3 ADR XXX DATA XXX*

SA indicates software number A, H indicates Hotel Mode option is present in this software and V1.3 indicates 1st masking with 3rd version.

4.2.2 Set all software controlled options

The addresses where the option settings are stored are the addresses 245 up to and including 253. The default data (stored by the factory) differs from stroke version to stroke version. This default data is given at a sticker inside the set.

For manipulation of the data at the option addresses 245 up to and including 253 table 8.3 can be used.

Changing the options settings according to the hardware environment, can be done in the Service Mode via the keys:

1. "CONTROL -/+" By pressing the "control -/+" keys the value behind ADR or DATA will be highlighted sequently 2a. "PROG -/+" By pressing "prog -/+" keys the highlighted value can be increased or decreased 2b. "0-9" By pressing "0-9" keys the highlighted value can directly be keved in 3. "STORE" After every ADR and/or DATA change a "store" command has to

be given to store these changes!!!

For the option addresses 245 and 246 first determine what is valid for your particular set (e.g. the first option for a software number A set at address 245 is to choose for is "2CS stereo" or "No 2CS stereo" possible) by choosing between the option A or B (option A is always the opposite of option B). After determination of all options (so 8 option choices per address) the 8 corresponding values can be added for that particular address. This sum is the data to be keyed in, so e.g. for address 245 a set with software number A data can be calculated as follows:

2CS stereo possible AV stereo playback is selectable AV is selectable 32 Spatial sound possible 16 Hue control possible No simulcast 0 Remote STORE key not allowed "Normal" bandswitch signals used The data at address 254 by then is:

Repair tips

For option addresses 247 up to and including 253 the values in table 8.3 are related to the used tuner and to NICAM and Multisound panel present or not present. The values given in this table can directly be keyed in as the data for the corresponding option addresses.

The changed settings are only activated when the set is switched off and on again and if the checksum at address 254 is correctly updated; if the checksum is not OK the set will use default settings!

The checksum can be obtained by adding all data at the addresses 245 up to and including 253 and then subtract 256 until the data has a value under 256: for example, if EEPROM contains the following data, the checksum will be:

| Address | Data |
|---------|------|
| 245 | 187 |
| 246 | 117 |
| 247 | 41 |
| 248 | 82 |
| 249 | 74 |
| 250 | 33 |
| 251 | 132 |
| 252 | 8 |
| 253 | 226 |
| | |
| | 900 |
| | |

900 - 256 - 256 - 256 = 132

| Checksum address | Data |
|------------------|------|
| 254 | 132 |

The other addresses of the EEPROM (so all addresses except 240 to 254 and 220) contain program information and preference-, factory- and current settings.

4.2.3 Display error codes détected in the past

The data at address 220 indicates all error codes detected in the past. The data at address 220 is a byte whereby the 8 bits refer to 8 possible error codes detected in the past; see table 8.2.

| detected in the past, see table 0.2. | | | | | |
|--------------------------------------|---------------------------|----------------------------------------|--|--|--|
| Data at address 220 | Error codes: 8765 4321 | Error codes detected in the past | | | |
| 000 | 00000000 | No error codes detected | | | |
| 001 | 00000001 | 1 | | | |
| 002 | 00000010 | 2 | | | |
| 003 | 00000011 | 1 & 2 | | | |
| 004 | 00000100 | 3 | | | |
| 005 | 00000101 | 1 & 3 | | | |
| 006 | 00000110 | 2 & 3 | | | |
| 007 | 00000111 | 1 & 2 & 3 | | | |
| etc. | | | | | |
| etc. | | | | | |
| 255 | 11111111 | 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 | | | |

Table 8.2

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4.2.4 Erase the error code detected in the past
If data at address is overwritten with 000 the arror code
history has been erased.

4.3 Exit of the Service Mode:

For all software numbers the Service Mode is exited via the standby command.

5. Replacing an EEPROM

Besides of the option settings also information about programs, PP (personal preference), IP (initial or ractory preference, the "NORMAL" in the PP-toggle function) and CU (current settings at the moment the set was switched off) are stored in the EEPROM. After replacing an EEPROM the PP will be stored after pressing the PP store button and the CU will be stored after switching off the set. But as the IP can not be filled via a "Normal Operation", this has to be done (although it is not necessary for basic operation of the set) in the Service Mode by storing the following data at the respective addresses:

| Address | VST-sets | PLL-sets |
|---------|----------|----------|
| 232 | 63 | 63 |
| 233 | 20 | 30 |
| 234 | 33 | 39 |
| 235 | 32 | 32 |
| 236 | 176 | 170 |
| 237 | 160 | 160 |
| 238 | 20 | 20 |
| | | |

6. Hotel mode

Hotel mode can only be activated if:

- Software for hotel mode is available (so an "H" version)
- 2. When hotel mode option (address 246) is enabled Two hotel modes are possible:

Hotel mode 1:

- Activating by simultaneously pressing the "STORE" and "PROGRAM-" on the local keyboard while program 38 is selected. Both keys must be hold down for at least 3 seconds.
- * Features:
 - Install menu (also automatic search) not possible.
 - Storing PP not possible.
 - Using the "PROGRAM +/-" keys from standby will switch the TV on to program 1 instead of to the last selected program.
 - Maximum volume value is limited to the value present at the moment the hotel mode was activated.
- Deactivating by simultaneously pressing the "PROGRAM+" and "VOLUME-" keys on the local keyboard for at least 3 seconds while program 38 is selected.

Hotel mode 2:

- Entering by simultaneously pressing the "STORE" and "PROGRAM-" on the local keyboard while program 37 is selected. Both keys must be hold down for at least 3 seconds.
- * Features: Same features as Hotel mode 1 except from program numbers 30 up to 49 the screen remains blanked to be used as a radio (the transmitter should produce a valid horizontal IDENT). While these blanked program numbers are tuned the small program number will be displayed
- permanently.

 Deactivating by simultaneously pressing the
 PROGRAM+ and *VOLUME-* keys on the local keyboard for at least 3 seconds while program 37 is selected.

Repair tips

Option setting table for software number A

| Address | Option A | Value | Option B | Value | | | |
|---------|-------------------------------------------------------|-------|-----------------------------------------------|-------|--|--|--|
| 245 | 2 CS stereo possible | 0 | 2 CS stereo not possible | 128 | | | |
| | AV stereo playback enabled | 0 | AV uses mono only | 64 | | | |
| | No AV selectable | 0 | AV selectable | 32 | | | |
| | No spatial sound possible | 0 | Spatial sound selectable | 16 | | | |
| | No hue control possible | 0 | Hue control possible | 8 | | | |
| | No simulcast | 0 | Simulcast available | 4 | | | |
| | Remote STORE key allowed | 0 | No remote STORE key | 2 | | | |
| | VHF1 and VHF3 swapped for UV973 tuner | 0 | "Normal" bandswitch signals | 1 | | | |
| 246 | No hotel mode possible | 0 | Hotel mode can be enabled | 128 | | | |
| | No UHF tuning possible | 0 | UHF band allowed | 64 | | | |
| | No VHF3 tuning possible | 0 | VHF3 band allowed | 32 | | | |
| | No VHF1 tuning possible | 0 | VHF1 band allowed | 16 | | | |
| | Not used | | | | | | |
| | No sound standard selection | 0 | Auto, M, B/G, I, D/K sound selection possible | 4 | | | |
| | Not used | | | | | | |
| | No colour system selection | 0 | Auto, SECAM, PAL(/NTSC) | 1 | | | |
| 247 | No NICAM panel possible, multisound panel not present | | | | | | |
| | No NICAM panel possible, multisound panel present | | | | | | |
| | NICAM available, multisound panel not present | | | | | | |
| | NICAM available, multisound panel present | | | | | | |
| 248 | UV 913 / UV 973 (VST) | | | | | | |
| | UV 915 (VST) | | | | | | |
| | UV 953 (VST) | | | | | | |
| 249 | UV 913 / UV 953 / UV 973 (VST) | | | | | | |
| | UV 915 (VST) | | | | | | |
| 250 | UV 913 / UV 953 / UV 973 (VST) | | | | | | |
| | UV 915 (VST) | | | | | | |
| 251 | UV 913 / UV 953 / UV 973 (VST) | | | | | | |
| | UV 915 (VST) | | | | | | |
| 252 | All VST tuners | | | | | | |
| 253 | UV 913 / UV 953 / UV 973 (VST) | | | | | | |
| | UV 953 (VST) | | | | | | |

Table 8.3

Switching the TV ON/OFF

 Press the POWER button on the front bottom left hand corner of the TV to switch ON/OFF and wait a few seconds for the sound or signal to come on.

If there is a red light on the bottom of the screen, it indicates that the TV has been put to 'Stand-by' mode



Press the STAND-BY button (O) or any digit buttons on the remote control handset. OR







Press the CHANNEL + or - button on the remote control handset or the TV control







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Searching and Storing TV Channels

For searching and storing TV channels you need to work with the control buttons at the top of the TV and your remote control handset. (U) to 70 TV stations can be stored on channel numbers using the following methods.) You can store the TV stations either automatically or manually.

(Note: For Australia (version //5) the TV is pre-tuned to channel number 0, 2, 7, 9, 10 and 28.)

A. To Store the TV Stations Automatically

1. Press the INSTALL button at the top of the TV with a pointed object to start the INSTALLATION menu; the AUTO menu is selected first.





2. Press the MENU or MENU ON button on the remote control handset to select the AUTO menu







Press the MENU + button on the remote control handset to start the AUTO mode. The TV will start
searching and store all available stations in an ascending sequence.



NOTE: If at any time of the AUTOMATIC TUNING procedures and you wish to exit, press the

• button on your remote control handest

When all the available stations are stored, it will automatically exit from the INSTALLATION. Menu and channel 1 will be displayed. In case the picture and sound is not optimum, proceed to the section on Fine Tuning.

B. To Store the TV Stations Manually

Press the INSTALL button at the top of the TV set with a pointed object to start the INSTALLATION
Menu.



2. Press the MENU + button on the remote control handset to highlight the MANUAL menu.







NOTE: If at any time of the MANUAL TUNING procedures and you wish to exit, press the

button on your remote control handset.

3. Press the MENU or MENU ON button on the remote control handset to select the MANUAL Menu.







4. Press the MENU + button on the remote control handset to start the MANUAL mode. The TV will start searching and at every available station, it will prompt you to enter your preference channel number.







If the signal is weak and you do not wish to store the TV station, press the MENU + button to continue searching.

If the signal is good and you wish to store the TV station, select the desired change number by pressing the CHANNEL + or — button on your remote control handset or TV control. Store our selection by pressing the INSTALL button.

5. Repeat Step 4 to store other available TV stations.

TO EXIT

Press the INSTALL button again.

NOTE: If in case the picture and sound stored is not optimum, proceed to the section on. Fine Tuning

Directions for use

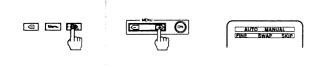
C. Fine Tuning

In case the picture and sound is not optimum or in area of poor reception and constant interference, a slight adjustment of the tuning may improve the picture and sound quality.

- Select the channel which you want to fine tune with the CHANNEL + or button on the remote control handest or TV control.
- 2. Press the INSTALL button at top of the TV to start the INSTALLATION Menu



3. Press the MENU + button on the remote control handset to highlight the FINE tuning menu.



4. Press the MENU or MENU ON button on the remote control handset to start the FINE tuning Menu

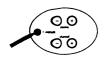


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5. Press and hold the MENU + or — button on the remote control handset until the desired picture or sound is obtained. A moving indicator and blinking channel number will appear on the screen indicating that the set is being fine tuned.



Press the INSTALL button on the TV control to store the new settings. Repeat the above procedures for other channel numbers which you wish to do a fine tuning.





TO EXIT:
Press the INSTALL button again

D. Swapping channel numbers

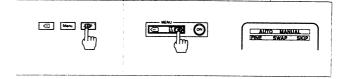
If you had used the automatic frequency searching, the TV stations stored under the channel num be to your preference. You can made use of the SWAP feature to re-arrange the TV stations acco-channel numbers of your preference.

- 2. Press the INSTALL button at the top of the TV with a pointed object to start the INSTALLATION Menu.

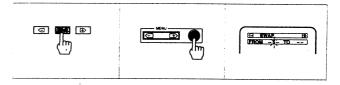


NOTE: If at any time of the SWAPPING procedures and you wish to exit, just press the button on your remote control handset.

3. Press the MENU + button on the remote control handset to highlight the SWAP menu



Press the MENU or MENU ON button on the remote control handset to start the SWAP Menu. The current channel will be indicated at the FROM column in green and flashing, e.g. Ch 5



Press the MENU + button on the remote control handset to select the TO column. (Pressing the MENU + or - button will enable you to toggle between the TO and the FROM function).



Select the channel number you wish to do the swapping by pressing the CHANNEL + or - button on the remote control hanndset or TV control e.g. Ch 8.



7. Press the INSTALL button to activate the SWAP function and to store the swapped channels



TO EXIT:
Press the INSTALL button again.

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Directions for use

E. Skipping channel numbers

This feature enable you to skip those channel numbers which have bad or no TV station signal via the CHANNEL + or - button on the remote control handset or TV control. But if you do a direct channel number keying on a remote control handset, you still can select the particular channel number even though it is been skipped in the particular channel number even though it is been skipped.

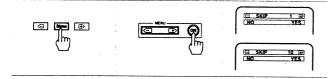
1. Press the INSTALL button at the top of the TV, to start the INSTALLATION Menu.



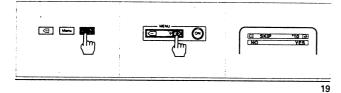
2. Press the MENU + button on the remote control handset to highlight the SKIP menu



Press the MENU or MENU ON button on the remote control handset to start the SKIP Menu and select trequired channels to be skipped with the CHANNEL + or — button on the remote control handset or TV control e.g., Ch 10.



Press the MENU + button on the remote control handset to select YES and the channel will be skipped from the memory. When a channel is skipped, the On Screen Display in the SKIP Menu will display e.g. 10 in red.



TO EXIT:
Press the INSTALL button at the top of the TV.

NOTE: If you need to add back the channel that you have skipped, please refer to the section on 'Adding to the skipped channel numbers' below.

- F. Adding back the skipped channel numbers
- 1. Repeat steps E1 to E4 on the previous page
- Press the MENU button to select NO and the channel will be added to the memory. When a char added, the On Screen Display in the SKIP Menu will displayed, e.g. 10 in green.



TO EXIT:
Press the INSTALL button at the top of the TV.

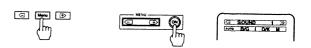
TV System Sound Selection (for multi-system sets only)

If during Automatic or Manual Tuning, the selected sound is distorted due to different TV transmission sy proceed with the following operations to restore the correct sound for the respective transmission.

- elect the channel number you want to rectify the sound system.
- Press and hold the INSTALL button at the top of the TV continuously for about 2 seconds, to activate the SOUND and COLOUR Menu; the SOUND menu is selected first.



3. Press the MENU or MENU ON button on the remote control handset to start the SOUND menu.



Press the MENU + or — button on the remote control handset to select one of the following sound systems according to the respective transmission mode: AUTO; 8/G; 1; D/K or M



If you select the AUTO mode, the TV will automatically select the respective soundsystem according to the

NOTE: In area of poor reception, select the respective transmission mode B/G, I, D/Kor M instead of AUTO

Press the INSTALL button on the TV control to store the selections and to exit from the SOUND and COLOUR Menu.

TV System Colour Selection (for multi-system sets only)

If during Automatic or Manual Tuning, the selected colour is distorted due to different TV transmission system, proceed with the following operations to restore the correct colour for the respective transmission.

- 1. Select the channel number you want to rectify the colour system
- 2. Press and hold the INSTALL button on top of the TV continuously for about 2 sconds, to start the SOUND and COLOUR Menu.



3. Press the MENU + button to select the COLOUR menu.



- 4. Press the MENU or MENU ON button on the remote control handset to start the COLLOUR menu.
- Press the MENU + or button to select one of the following colour system acc rding to the respective transmission mode: AUTO; SECam or PAL/NTSC



If you select the AUTO mode, the TV will automatically select the respective colour isten according transmission system.

NOTE: In area of poor reception, select the respective transmission mode SECam or ALIN TSC instead of AUTO

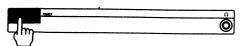
Press the INSTALL b COLOUR Menu. utton on the TV control to store the selections and to exit from the SOUND and

Directions for use

You can now operate your TV either directly using the TV buttons or the remote control handset.

1. Switching the TV ON/OFF

Press the POWER button on the bottom left hand corner of your TV to switch the TV ON and OFF.



NOTE: The last viewed TV station will be automatically selected when the set is first sw

2. Selecting the TV Channels

To select a TV station stored on a higher channel number
Press the CHANNEL + on the remote control handset or the TV control.

To select a TV station stored on a lower channel number

• Press the CHANNEL — on the remote control handset or the TV control.



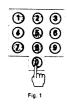




numbers can also be selected using the digit buttons 0 to 9 on the remote control handset

A. Single Digit Channel Number

Press and hold any of the respective digit buttons which correspond to the stored TV station. (see Fig. 1)



B. Two Digits Channel Number



To increase the volume
Press the VOLUME + on the remote control handset or the TV control

3. Adjusting the Volume

To decrease the volume
Press the VOLUME — on the remote control handset or the TV control.







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NOTE: If you want to store the volume as your personal preference, press the INSTALL button on the TV set while the volume indicator bar is still on the screen.

The following functions, S/No 4 to 12 are operations with the remote control handset.

4. Muting the Sound

· Press the mute button to switch off the sound.







Press the mute button or the VOLUME + or - button to restore the sound

Switching to 'Stand-by' mode

The TV can be put into 'Stand-by' mode in the following two ways.

A. Directly

Press the 🐧 button. The RED light below the TV screen is lighted up and the TV is put into 'Stand-by' mode





B. Automatically

6. Switching the TV ON from 'Stand-by' mode

Press the CHANNEL + or — button or any digit buttons.











The RED light below the TV screen will disappear

7. Displaying OSD

The 'On-Screen-Display' (OSD) allows you to see the channel number on which a TV station is stored and also the sleep-timer and bass-boost selections.

Press the

button ONCE to display the channel number, TWICE to display the sleep-timer and bass-boost and ONCE MORE to switch off the displayed information.







8. Personal Preference (PP)

If adjustments had been made to the picture and sound settings, it is possible to recall the stored settings either from your own or factory stored preferences.

Recalling Personal Preference (PP) and Factory Stored Personal Preference







9. Dynamic Bass-Boost (DBB)

This feature enable you to enhance the bass especially for musical programmes

Press the DBB button to switch on or off the amplification.







10. AV Source Selection

If your TV is connected to other peripherals equipment via the AV input, you can watch the playback programmes in the AV channel.

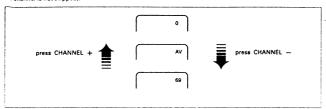
Press the AV button to switch between the AV mode and the TV mode







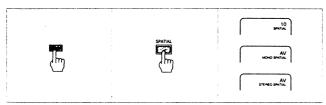
Directions for use



11. Spatial Sound

This feature enable you to hear a Surround effect

Press the SPATIAL button to switch on or off the special acoustic sound effect



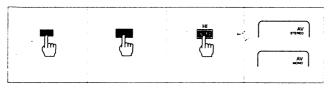
You can select either STEREO SPATIAL or MONO SPATIAL depending on which sound mode you are playing back.

12. Stereo Playback

This feature is only applicable if you are playing back STEREO programme via the AV sockets from a stereo VCR or laser disc player.

Press the STEREO or HI button to switch between STEREO or MONO sound.

If you are playing back mono programmes (i.e. you only connect the Video socket and the Audio L socket), you must select to the mono sound mode, if not , you will only hear the sound coming out from one of the speakers.

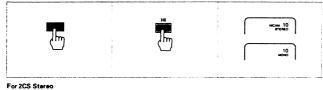


For models 21GX1870, 21GX1970, 25GX1880 and 25GX1980 only

This feature is only applicable if the TV broadcast is transmitted in NICAM Stereo and 2CS Stereo sound. If not you will receive either normal-stereo or mono sound. With NICAM (Near Instantaneous Companded Audio Multiplex) sound you can experience a sound quality that is comparable to compact disc quality.

Press the I-II button on the remote control handset to select between NICAM Stereo / 2CS Stereo and FM Sound (appear as MONO in yellow on the TV On-Screen-Display).

For NICAM Stereo



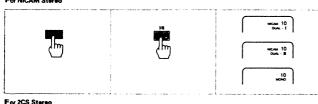


When a programme is broadcasted in two languages,

1. For NICAM Stereo, press the I'II button to select either DUAL- I or DUAL- II or FM sound.

2. For 2CS Stereo, press the I'II button to select either DUAL- I or DUAL- II.

For NICAM Stereo



For 2CS Stereo



The picture and sound settings are pre-set by the factory for ideal viewing, but you can store your own person preferance for CONTRAST, BRIGHTNESS, COLOUR, HUE, SHARPNESS, BALANCE and BASS-BOOST using the CON Screen Menu

Press the MENU or MENU ON button on the remote control handset to cycle through the menu.



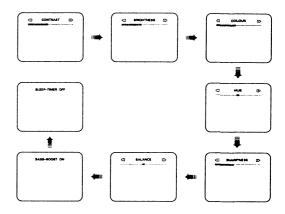
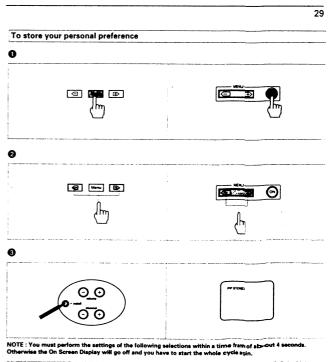


Fig. 1: On Screen Menu



CONTRAST

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- Press the MENU or MENU ON button to select CONTRAST.
 Press the MENU + or button to increase or decrease the contrast setting.
 If you want to store this setting as your personal preference, press the INSTALLEnt

BRIGHTNESS

- Press the MENU or MENU ON button to select BRIGHTNESS.
 Press the MENU + or button to increase or decrease the brightness setting.
 If you want to store this setting as your personal preference, press the INSTALL by

COLOUR

- Press the MENU or MENU ON button to select COLOUR.
 Press the MENU + or button to increase or decrease the colour setting.
 If you want to store this setting as your personal preference, press the INSTALL bitton o

Directions for use

HUE (For NTSC System or Playback only)

Press the MENU or MENU ON button to select MUE.

Press the MENU + or - button to increase or decrease the colour tone setting.

If you want to store this setting as your personal preference, press the INSTALL button on the TV co

SHARPNESS

Press the MENU or MENU ON button to select SHARPNESS.
Press the MENU — or + button to decrease or increase the sharpness setting.
If you want to store this setting as your personal preference, press the INSTALL button on the TV co

BALANCE (For off-air stereo and AV stereo only)

Press the MENU or MENU ON button to select BALANCE.
Press the MENU + or — button to select right or left speaker output.
If you want to store this setting as your personal preference, press the INSTALL button on the TV control.

BASS-BOOST

Press the MENU or MENU ON button to select BASS-BOOST.
Press the MENU + or — button to switch on or off the bass-boost.
If you want to store this setting as your personal preference, press the INSTALL button on the TV control

SLEEP-TIMER

Press the MENU or MENU ON button to select SLEEP-TIMER.
Press the MENU + or - button to increase or decrease the sleeptimer setting

With this feature, you can select a time period after which the TV set will switch to Stand-by mode automatically. The timer can be set in steps of 15 minutes from OFF up to a maximum of 120 minutes.

NOTE: At the final minute of the selected time period, an indication bar will be shown on the screen. During the final 30 seconds, the indication bar will begin to count down on the screen informing you that the TV set is going to switch to the Stand-by mode. At the end of the countdown, the TV will switch over to the Stand-by mode.

You can switch off the SLEEP-TIMER with one of the following steps:

Select the SLEEP-TIMER menu and select the timer to OFF;

Switch the TV set to Stand-by mode or

Switch off the TV set.

Most TV channel broadcast contains teletext information. Each channel that broadcasts teletext transmits a page (index page) with information on how to use its teletext system – usually on page 100. TV programmes are sometimes subtitled for the bradful of hearing. Depending on the TV broadcast, teletext is transmitted in different systems: WST, TOP or FLOF. The system transmitted is indicated in the option line at the bottom of the screen.

400 0401 Muon but + - - + WST TOP FLOF DHILIDS PP Φ ÷ . 4-• • Õ • **(29)** (3) 3 Ö □ AV **B O** 10 - -Spatial 3 16 - -PHEILIPS

For models 2 1 GX1970, 21GX1971, 25GX1980 and 25GX1981

For models 21GX1870 and 25GX1880

Switching Teletext On and OFF —
 Select a TV channel on which teletext is being transmitted. (Check with a TV programme guide.)
 Press the Dutton to switch on or off the Teletext display. Usually the list of contents (index) is displayed on the screen.

2. Index — (For RC 6940 only)
Press the (I) button to select the index page.

Selecting a Teletext Page — Digit 0 – 9
Press the digit button for the required Teletext page number (3 digits).
The selected page number is displayed at the top left corner of the screen. The Teletext page counter searches until the selected page is located. Then the required page is displayed on the screen. If the counte keeps searching, it means that the page is not available for selection. If you had made a mistake in keying the page number, you have to complete the three digit number before re-keying the correct page number.

NOTE: If an inappropriate digit button is pressed a '?' symbol will be displayed on the top left corner of the screen. To return to normal Teletext operation, just press the approriate digit buttons.

4. To 'Fast' Select a Teletext (For RC 6940 only)

If the teletext is transmitting with FLDF (or Fast Text) format, you can make use of the corresponding colour buttons (red, green, yellow and blue) to select the respective Teletext page.

If the Teletext is transmitting with the WST format, there is a four page memory. You can select the next two sequential pages or the previous page quickly.

Press the red button to select the previous page.

Press the blue button to select the previous page.

Hold — 章 (For RC 6940 only)
selected page number sometimes contains a few sub-pages. The sub-page will automatically rotate to the next
ub-page after about 20 seconds. The total numbers of sub-pages are indicated on the top right corner of the
resen. (e.g. 1½)
Press the 章 button to hold a sub-page to read the text at your own pace, 图 symbol appears at the top
left corner of the screen indicating that the page is on hold.
Press the 章 button to resume page rotation.

Reveal - ?

neveal — ?
letimes a Teletext page contains concealed information such as in a quiz or puzzle
Press the ? button to reveal the concealed information.
Press the ? button again to hide the concealed information.

Interrupt — X (For RC 6940 only) swap the Teletext and TV mode.

Press the X button to change to the TV mode. The TV programme appears and the symbol appears at the top left corner of the screen indicating that the page is swapped.

Press the X button again to return to the Teletext page.

Mix — ②
Press ② button to superimpose the Teletext page over the TV programmes on the screen Press ② button again to return to the Teletext page.

Enlarge — +

mode enables you to view the Teletext page at double size in two pages.

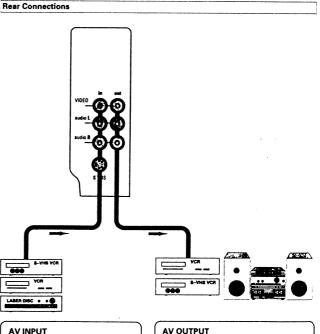
Press the button to view the top half of the Teletext page.

Press the button again to view the bottom half of the Teletext page.

Press the button once more to return to normal size Teletext page.

33

Rear and antenna connections are located at the back panel of the TV set while headphone conne in the front. Drawings below are graphical representation of the connection options of the TV set.



AV INPUI

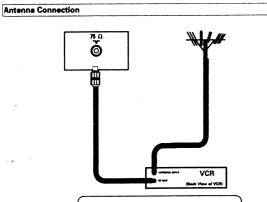
Connect the Video and Audio Left sockets to your mono VCR. If stereo VCR or Laser Disc are used, connect the Audio Right socket also. If you have a S-VHS VCR, you can enhance the picture quality by using the S VHS socket.

Note: S-VHS signal will have priority over Video signal if both are connected.

AV OUTPUT

Allows you to record what you are viewing on the TV onto a VCR. Connect the Video, Audio Left and Right sockets respectively. If a S-VHS VCR is used, connect to the S-VHS socket instead of the Video socket.
Note: S-VHS signal will have priority over Video signal if both are connected.

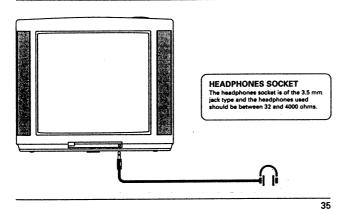
You can also enhance the sound of your TV by connecting the Audio Left and Right sockets to you external amplifier.



ANTENNA RF INPUT

You can connect the antenna either through the VCR or directly to the TV. Connect the antenna to the RF input of the VCR and from the VCR RF output, connect to the antenna input (""") of your TV.

Headphone Connection



To store the Video Cassette Recorder (VCR) signal on a channel number

(Please refer to section on 'Peripherals Equipment Connections' on how to connect your VCR.)

NOTE: Your YCR could already have pre-tuned TV channel numbers stored. For detailed connection and installation of the VCR, please refer to the Instruction Manual of the VCR.

1. Switch on the TV and the VCR.

In most VCR, there is a test signal switch located at the back of the set.

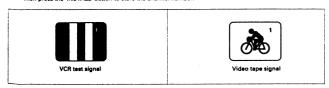
2a, Switch the test signal switch from the off position to the test signal position. (see Fig. 1)

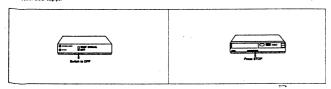
If your VCR does not have the test signal switch, you can used a pre-recorded tape to simulate the video signal.

2b. Insert a pre-recorded tape into the VCR and press the PLAY button on the VCR. (see Fig. 2)



- 3. Perform a manual searching (see section under "To Store the TV Stations Manually") to search for the VCR test signal or the tape signal.
- 4. When the VCR test signal or the video tape signal is located, select the desired channel number to be stored. Then press the INSTALL button to store the channel number.





8. Switch off the TV and the VCR.

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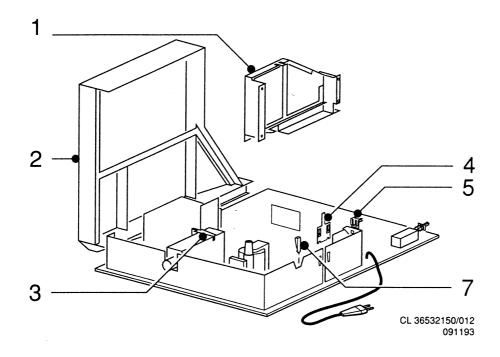
| | 21" | 25" |
|-----------------------------------------------------|-------------------------------------|---------------------|
| Picture Tube Size | 21" (51 cm) | 25" (59 cm) |
| Audio Output : Speakers : Woofer | 2 x 2 W 4W | |
| Channel Numbers | VHF (I, III) and UHF wit | h 70 pre-selections |
| Tuning System | VST | |
| Antenna Input | 75 ohm co-axial . | |
| Connections : AV Input / Output : Headphones Socket | 1 x Video, 2 x Audio So Ø 3.5 mm | ckets, 1 x S-VHS |
| Dimensions (Width x Height x Depth) | (576 x 440 x 484) mm | (648 x 500 x 501) n |
| Weight (Approx. Only and without packaging) | 24 kg | 31 kg |

| | | | VERSION /XX | | | | | | | |
|----------------------|------------------------|----|-------------|----|----|----|----|----|----|----|
| | | 52 | 56 | 57 | 58 | 59 | 69 | 75 | 79 | 93 |
| | PAL B/G | • | • | | | | • | | • | |
| | PAL B/H | | | | | | | • | | |
| E | PAL D | | | | | | | | | |
| TV System | PALI | | | • | | | | | | • |
| | PAL/SECAM B/G/D/K | | • | • | • | • | • | | | • |
| | NTSC M | | | • | | | • | | | • |
| | PAL 60 Playback | • | • | • | • | • | • | • | • | • |
| | 160 - 250 V-, 50/60 Hz | • | | | • | | | | | |
| g e | 220 V ~, 50/60 Hz | | | | | | | | | • |
| Operating Voltage | 230 V~, 50/60 Hz | | | | | | | | • | |
| 8 S | 240 V~, 50/60 Hz | | | | | | | • | | |
| | 100 - 250 V~, 50/60 Hz | | • | • | | • | • | | | |

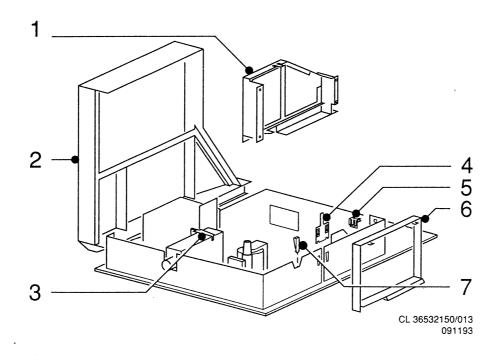
NOTE : Please refer to the type plate at the rear of the TV set or the identification Sticker on the carton box for reference to the version number for the set.

10. Spare parts list

Chassis 21"



Chassis 25"



| • • | | <u>-</u> | | | | | |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Main carrier 21 and 25" [A], [AA], [B], [C], [D] | 2208 4822 122 33449 47nF 30% 50V 2212 5322 121 42386 100nF 5% 63V 2213 4822 121 42868 220nF 5% 50V | 2501 4822 121 70141 33nF 5% 400V 2502 4822 126 12793 2.2nF 10% 2KV 2503 4822 126 12793 2.2nF 10% 2KV 2504 4822 126 12793 2.2nF 10% 2KV | 3252 4822 116 52176 10Ω 5% 0.5W 3253 4822 116 52176 10Ω 5% 0.5W 3254 4822 116 52226 5600 5% 0.5W 3255 4822 050 11002 1k 1% 0.4W | 3504 | 5206 4822 152 20667 5.6µH 10% 5206 4822 157 53303 12µH 10% 5209 4822 157 52265 100µH 10% 5260 4822 157 71119 Toko | 6565 5322 130 31504 BZX79-C3V3 66064 4822 130 34173 BZX79-C5V6 66074 4822 130 30621 1N4148 6618 4822 130 34382 BZX79-C8V2 | 6509 4822 130 34174 BZX79-C4V7 6510 4822 130 31024 BZX79-B18 65114 4822 130 30821 1N4148 |
| | 2219 4822 121 51319 1µF 10% 63V 2220* 4822 124 40433 47µF 20% 25V | 2505 4822 124 41764 100µF 20% 400V 25054 4822 124 42168 330µF 400V | 3256 4822 050 11002 1k 1% 0.4W 3257 4822 050 11002 1k 1% 0.4W | 3506 4822 053 11273 27k 5% 2W 3507 4822 116 52263 2k7 5% 0.5W | 5286 4822 152 20667 5.6µH 10% | 6632 4822 130 30621 1N4148 6633 4822 130 34174 BZX79-C4V7 | 6511 ^A 4822 130 30621 1N4148 |
| Various | 2221 5322 121 42386 100nF 5% 63V 2222 4822 124 41576 2.2µF 20% 50V | 2505 4822 124 80855 330µF 20% 400V 2513 4822 126 12792 2.2nF 10% 500V | 3259 4822 050 11002 1k 1% 0.4W | 3519 4822 117 10422 0.33Ω 5% 3W 3520 4822 113 80637 1.5k 5W | 5286 4822 157 53303 12µH 10% 5287 4822 152 20667 5.6µH 10% | 6645 4822 130 30621 1N4148 6648 4822 130 82037 HZT33 | ∞ □ |
| 1 4822 404 31327 Bracket for TXT panels | 2223 5322 121 42386 100nF 5% 63V 2224 4822 124 41643 100µF 20% 16V | 2520* 4822 126 12269 680pF 10% (HR) | 3261 4822 116 52271 33k 5% 0.5W 3262 4822 116 52296 6k8 5% 0.5W | 3521 4822 052 10222 2k2 5% 0.33W 3522 4822 116 52206 120Ω 5% 0.5W | 5287 4822 157 53303 12μH 10% 5288 4822 152 20687 5.6μH 10% 5288 4822 157 53303 12μH 10% | 6715* 4822 130 30621 1N4148 | 7510 4822 209 32347 UC3842B |
| 2 4822 404 30359 Bracket for 2CS + I/O + ampl panel | 2225 4822 126 12643 22nF 20% 50V 2228 4822 121 51252 470nF 5% 63V | 25214 4822 126 11254 330pF 10% 2KV | 3263 4822 116 52244 15k 5% 0.5W 3264 4822 100 20166 10k 30% LIN 0.1W | 3522 4822 116 52221 360Ω 5% 0.5W 35254 4822 116 60127 4M 7 5% 1W | 5424 4822 157 60122 4.7µH 10% | €□ | 7512 5322 130 60803 BST72A |
| 3 4822 404 31356 Bracket for QSS | 2236 5322 122 32491 1nF 20% 100V 2243 4822 126 12643 22nF 20% 50V | 2521 4822 126 12272 1nF 10% (HR) 2KV 2523 4822 126 12269 680pF 10% (HR) | 3265 4822 116 52207 1k2 5% 0.5W 3267 4822 116 52244 15k 5% 0.5W | 3526 4822 053 11473 47k 5% 2W 3528* 4822 052 10108 1Ω 5% 0.33W | 5441 4822 146 21116 Line driver trafo 21" 5441 4822 146 10111 Line driver trafo 25" | 7000 4822 209 10892 LA7910 | Mains input panel 25" |
| 4 4822 404 21263 Bracket clamping heatsinks | 2245 4822 126 12643 22117 20% 50V | 25254 4822 122 40602 1nF 20% 400V | 3268 4822 116 52233 10k 5% 0.5W 3270 4822 116 52264 27k 5% 0.5W | 3529 4822 116 52298 680k 5% 0.5W | 5443 4822 157 51462 10µH 10% | 7109 4822 130 40938 BC548 7212* 4822 130 44197 BC558B | [AA] |
| 5 4822 404 31363 Mains cord relief 6 4822 404 31357 Bracket for mains | 2246 4822 121 42408 220nF 5% 63V | 2526 4822 121 42071 3.9nF 10% 400V | 3271 4 4822 116 52283 4k7 5% 0.5W | 3530 4822 116 52231 820Ω 5% 0.5W 3542 4822 116 52191 33Ω 5% 0.5W | 5445* 4822 140 10486 Line trafo 21* 5445* 4822 140 10494 Line trafo 25* | 7213 4822 130 44197 BC558B 7214 4822 130 40941 BC558 | |
| input panel (25") | 2248 5322 122 32491 1nF 20% 100V 2249 5322 122 32491 1nF 20% 100V | 2527 4822 122 40602 1nF 20% 400V 2528 4822 122 40602 1nF 20% 400V | 3273 4822 116 52234 100k 5% 0.5W | 3560 4822 050 21501 150Ω 1% 0.6W 3560 4822 116 52213 180Ω 5% 0.5W | 5449 4822 157 51462 10µH 10% 5454 4822 157 63702 Lin. corrector 21° | 7215 4822 130 40938 BC548 7218 5322 209 86283 L7808CP | Various |
| 7.4 4822 492 70289 Spring for SOPS tor 21* and line | 2251 4822 126 12643 22nF 20% 50V 2253 4822 126 12643 22nF 20% 50V | 2530 4 4822 126 11382 1nF 10% 1KV 2530 4 4822 126 12272 1nF 10% (HR) 2KV | 3278 4822 116 52283 4k7 5% 0.5W 3283 4822 050 11002 1k 1% 0.4W | 3561 4822 116 52195 47\(\Omega\) 5% 0.5\(\Omega\) | 5454 4822 157 71118 Lin. corrector 25* 5481 4822 157 62336 100uH 10% | 7225 4822 209 32532 TDA8362C/N3 7245 4822 209 32359 TDA8395/N1 | 4822 212 31344 Mains input panel |
| tors 4822 492 62076 Spring for SOPS | 2254 5322 124 41431 22µF 20% 35V 2256 5322 121 42386 100nF 5% 63V | 2531 4822 124 22583 47µF 160V 2540 4822 124 42106 1500µF 20% 35V | 3284 4822 050 11002 1k 1% 0.4W 34004 4822 116 52256 2k2 5% 0.5W | 3563 4822 116 52215 22012 5% 0.5W 3565 4822 116 52233 10k 5% 0.5W | 5500 4822 157 70699 Mains filter 5513 4822 157 60171 Bead | 7255 4822 209 31714 TDA4861/V2 | 25" 4822 276 13431 Mains switch |
| tor 25° and frame tors | 2257 5322 121 42386 100nF 5% 63V 2260 4822 122 31061 18pF 2% 100V | 2541 4822 126 11382 1nF 10% 1KV | 3400 ⁴ 4822 116 52283 4k7 5% 0.5W 3401 4822 116 52243 1k5 5% 0.5W | 3598 4822 116 52272 330k 5% 0.5W | 5520 4822 157 60171 Bead 5522 4822 157 60122 4.7µH 10% | 7270 4822 130 40938 BC548 | 4822 256 30496 Fuse holder 4822 265 20366 1 pin header 2.35 |
| 4822 404 31362 Spring for east/west | 2261 4822 126 12643 22nF 20% 50V | 2561 5322 124 41431 22µF 20% 35V 2605 4822 124 41566 3.3µF 20% 50V | 3403 4822 116 52263 2k7 5% 0.5W 3404 4822 116 52243 1k5 5% 0.5W | 3603 4822 116 52269 3k3 5% 0.5W 3604 4822 116 52175 100k2 5% 0.5W | 5522 4822 157 60122 4.7µH 10% | 7400 4822 209 33321 TDA3654/N3 7400 4822 209 60955 TDA3653B/N1 | mm 4822 267 40646 2 pins header 2.35 |
| transistor 4822 404 31358 Spring for 6529 | 2262 4 4822 124 40433 47µF 20% 25V 2264 4822 126 12643 22nF 20% 50V | 2606 4822 126 12643 22nF 20% 50V 2607 4822 122 33293 100pF 5% 50V | 3405 4822 116 52182 15Ω 5% 0.5W 3405 4822 116 81154 2Ω2 5% 0.5W | 3605 4822 116 52228 680Ω 5% 0.5W | 55254 4822 146 31347 SOPS trafo 21* | 7423 4822 130 40938 BC548 | mm 4822 265 20441 3 pins header |
| (21*) | 2265 4822 124 41576 2.2µF 20% 50V 2272 4822 126 12641 4.7nF 20% | 2608 5322 122 32356 820pF 10% 100V 2610 5322 122 32356 820pF 10% 100V | 3406 4822 116 52244 15k 5% 0.5W | 3608 4822 116 52175 100Ω 5% 0.5W 3609 4822 116 52175 100Ω 5% 0.5W | 5525* 4822 146 31348 SOPS trafo 25* 5529 4822 157 71121 Bead | 7430 5322 130 60803 BST72A 7439 5322 130 44647 BC368 | 4822 410 63148 Push button for mains switch |
| 4822 265 20366 1 pin header 2.35 mm | 2273 5322 121 42386 100nF 5% 63V 2275 5322 122 32334 220pF 10% 100V | 2615 5322 122 32356 820pF 10% 100V 2620 4822 124 40242 1µF 20% 63V | 3406 4822 116 52257 22k 5% 0.5W 3407 4822 116 52264 27k 5% 0.5W | 3611 4822 116 52175 100Ω 5% 0.5W 3612 4822 116 52304 82k 5% 0.5W | 5530 4822 157 60171 Bead 5530 4822 157 71121 Bead | 7440 4822 130 41782 BF422 7440 4822 130 42159 BF819 | 1500 4 4822 070 33152 Fuse 3.15 A T |
| 4822 267 40646 2 pins header 2:35 mm | 2277 5322 122 32334 220pF 10% 100V 2280 4822 121 43526 47nF 5% 250V | 2621 4822 126 12643 22nF 20% 50V | 3407 4822 116 52271 33k 5% 0.5W 3408 4822 273 30395 3 pos switch 21* | 3617 4822 116 52175 100Ω 5% 0.5W 3622 4822 116 52284 47k 5% 0.5W | 5531 4822 157 63698 33µH 5531 4822 158 10551 27µH | 7445 4822 130 60851 2SC3973B | 4- |
| 4822 265 20441 3 pins header 4822 265 31101 3 pins male BTB | 2281 5322 122 32491 1nF 20% 100V | 2624 5322 122 32356 820pF 10% 100V 2625 5322 122 32356 820pF 10% 100V | 3408 4822 273 30397 3 pos switch 25° 3409 4822 116 52276 3k9 5% 0.5W | 3625 4822 050 11002 1k 1% 0.4W | 5532 4822 157 60171 Bead 5540 4822 157 60171 Bead | 7445 4822 130 63569 BU1508DX 7446 4822 130 41646 BF423 | l " |
| (AU) 4822 264 40207 3 pins male WTB | 2282 5322 122 32491 1nF 20% 100V | 2626 5322 122 32356 820pF 10% 100V 2626 5322 122 32356 820pF 10% 100V 2627 5322 122 32356 820pF 10% 100V | 3410 4822 100 11391 330Ω 30% LIN | 3626 4822 116 52284 47k 5% 0.5W 36274 4822 116 52283 4k7 5% 0.5W | 5543 4822 157 52259 5.6uH | 7480 4822 130 40824 BD136 7481 4822 130 40938 BC548 | 2500 4 4822 121 51457 470nF 10% 275V 2501 4822 121 70141 33nF 5% 400V |
| 4822 417 50217 4 pins male BTB | 2283 5322 122 32491 1nF 20% 100V 2284 4822 121 43526 47nF 5% 250V 2285 4822 121 43526 47nF 5% 250V | 2628 5322 122 32356 820pF 10% 100V | 3411 4822 116 81039 1Ω8 5% 0.5W | 3633 4822 050 11002 1k 1% 0.4W 3634 4822 116 52297 68k 5% 0.5W | 5546 4822 157 60171 Bead 5620 4822 157 52285 6.8µH 10% | 75134 4822 130 63409 STP6N60FI 75134 4822 130 63499 STH12N60FI | 2502 4822 126 12793 2.2nF 10% 2KV 2503 4822 121 42059 100nF 10% 400V |
| 4822 265 30796 4 pins header (M5) | 2285 4822 121 43526 47nF 5% 250V 2401 4822 122 31176 390pF 10% 500V 2401 4822 126 12791 390pF 10% 50V | 2638 5322 122 32491 1nF 20% 100V | 3412 4822 116 81039 1Ω8 5% 0.5W | 3635 4822 116 52233 10k 5% 0.5W 3636 4822 050 11002 1k 1% 0.4W | 5620 4822 157 71112 3.3µH 10% 56214 4822 157 52285 6.8µH 10% | 7563 4822 130 40941 BC558 7600 4822 209 33322 PCA84C844P/133 | 2504 4822 126 12793 2.2nF 10% 2KV 2509 4 4822 124 41525 100µF 20% 25V |
| 4822 265 30378 4 pins male WTB 4822 265 31181 5 pins male WTB | 2402 5322 121 42386 100nF 5% 63V | 2648 4822 124 40248 10uF 20% 63V | 34144 4822 116 52256 2k2 5% 0.5W | 3637 4822 116 52278 390k 5% 0.5W 3638 4822 116 52258 220k 5% 0.5W | 5621 4822 157 71112 3.3µH 10% 57114 4822 157 52285 6.8µH 10% | 7634 4822 130 40937 BC548B 7635 4822 130 40937 BC548B | 25274 4822 122 33665 3.3nF 20% 125V 25284 4822 122 33665 3.3nF 20% 125V |
| (M25) 4822 265 30934 5 pins header | 2403 4822 126 11134 5.6nF 10% 50V 2404 4822 124 21511 2200µF 20% 25V | 2655 5322 122 32334 220pF 10% 100V | 34154 4822 116 52256 2k2 5% 0.5W 34164 4822 117 10423 390Ω 5% 2W | 3640 4822 116 52297 68k 5% 0.5W 3641 4822 116 52271 33k 5% 0.5W | 57204 4822 157 52286 22µH 10% | 7636 4822 130 40938 BC548 | |
| (M26) 4822 267 50591 6 pins male BTB | 2404 4822 124 40785 3300uF 20% 25V | 2656 5322 121 42661 330nF 5% 63V 26824 4822 124 40433 47µF 20% 25V | 3420 4822 100 20166 10k 30% LIN 0.1W 3421 4822 116 52305 820k 5% 0.5W | 3646 4822 116 52175 100Ω 5% 0.5W | -N- | 7647 4822 130 41594 PH2369 7710 4822 209 52316 ST24C04B1 | - |
| (AU) | 2405 4822 124 21212 15µF 20% 40V 2405 5322 124 41431 22µF 20% 35V | 2683 5322 121 42386 100nF 5% 63V 2685 4822 124 41596 22µF 20% 50V | 3422 4822 116 52251 18k 5% 0.5W 3423 4822 116 52195 47Ω 5% 0.5W | 3647 4822 116 52211 150Ω 5% 0.5W 3648 4822 116 52261 24k 5% 0.5W | 6016 5322 130 34955 BA482 | | 3501 A 4822 116 40249 PTC 20Ω 265V 3502 4822 111 20403 470Ω 10% |
| 4822 290 40295 7 pins male WTB 4822 264 50148 8 pins male BTB | 2414 4822 126 12639 2.2nF 20% 2415 4822 124 80059 100µF 20% 25V | 2687 4822 124 40242 1µF 20% 63V 2688 5322 122 32491 1nF 20% 100V | 3424 4822 053 10391 390Ω 5% 1W 3425 4822 116 52278 390k 5% 0.5W | 3649 4822 116 52238 12k 5% 0.5W 3650 4822 116 52244 15k 5% 0.5W | 6254 4822 130 34233 BZX79-C5V1 6280 4822 130 30621 1N4148 | Power supply control | 3503≜ 4822 113 80603 1.5Ω 10% 7W 3504≜ 4822 053 21475 4M7 5% 0.5W |
| (AU) 4822 265 40818 8 pins male WTB | 2416 4822 121 43526 47nF 5% 250V 2421 4822 122 33305 2.7nF 5% 50V | 2692 4822 124 40242 1µF 20% 63V 2695 4822 124 41596 22µF 20% 50V | 3426 4822 116 52298 680k 5% 0.5W | 3652 4822 116 52258 220k 5% 0.5W | 6283 4822 130 34174 BZX79-C4V7 | panel [A], [AA] | 3505* 4822 113 80603 1.5Ω 10% 7W 3506 4822 053 11273 27k 5% 2W |
| 4822 532 61201 EHT cable spacer | 2422 4822 121 51252 470nF 5% 63V 2423 4822 126 12864 2.2nF 2% 250V | 2700 4822 124 40753 6.8µF 20% 63V 2703 4 4822 124 40433 47µF 20% 25V | 3427 4822 116 52305 820k 5% 0.5W 3428 4822 116 52257 22k 5% 0.5W | 3653 4822 116 52211 150Ω 5% 0.5W 3654 4822 116 52244 15k 5% 0.5W | 6284 4822 130 30621 1N4148 6286 4822 130 30621 1N4148 | | 3507 4822 116 52263 2k7 5% 0.5W 3509 4822 116 40247 18Ω 270V |
| 4822 276 13431 Mains switch 4822 256 30496 Fuse holder | 2424 4822 124 40242 1µF 20% 63V 2425 4822 126 12642 10nF 20% 50V | 2711 4822 126 12643 22nF 20% 50V | 3429 4822 116 52234 100k 5% 0.5W 3430 4822 116 52235 1M 5% 0.5W | 3656 4822 116 52233 10k 5% 0.5W 3661 4822 116 52249 1k8 5% 0.5W | 6287 4822 130 30621 1N4148 6288 4822 130 30621 1N4148 | Various | 4x0x 4822 051 10008 0Ω 5% 0.25W |
| 4822 410 63149 Push button for 21* mains switch | 2426 5322 121 42386 100nF 5% 63V | 2714 5322 122 32334 220pF 10% 100V 2721 5322 122 32143 22pF 100V | 3432 4822 116 52298 680k 5% 0.5W 34334 4822 116 52272 330k 5% 0.5W | 3662 4822 116 52289 5k6 5% 0.5W | 6412 4822 130 34189 BAV20 64154 4822 130 30621 1N4148 | 4822 212 31337 Power supply | |
| 1000 4822 210 10448 UV915E 1000 4822 210 10459 UV913/IEC | 2427 4822 126 12641 4.7nF 20% 2428 4822 122 30045 27pF 2% 100V | 2722 5322 122 32143 22pF 100V 2726 4822 122 33293 100pF 5% 50V | 3434 4822 116 52263 2k7 5% 0.5W 3435 4822 116 52263 2k7 5% 0.5W | 3670 4822 116 52226 560Ω 5% 0.5W 3671 4822 116 52226 560Ω 5% 0.5W | 6416 4822 130 42488 BYD33D | control panel 21* 4822 212 31345 Power supply | <u> </u> |
| 1015 4822 242 72197 OFWK2950M 38.9 | 2431 4822 122 33449 47nF 30% 50V 2432 4822 122 33449 47nF 30% 50V | 2727 4822 122 33293 100pF 5% 50V 2728 4822 122 33293 100pF 5% 50V | 3436 4822 050 24705 4M7 1% 0.6W | 3685 4822 116 52284 47k 5% 0.5W 3687 4822 116 52284 47k 5% 0.5W | 6417 4822 130 34173 BZX79-C5V6 6420 5322 130 34563 BZX79-C2V7 | control panel 25" 4822 265 40469 6 pins female BTB | 55004 4822 157 70699 Mains filter |
| MHz 1015 4822 242 81637 OFWK3952M 38.9 | 2433 4822 122 33449 47nF 30% 50V 2439 4822 122 31175 1nF 10% 500V | | . 3437 4822 116 52296 6k8 5% 0.5W 3438 4822 116 52303 8k2 5% 0.5W | 3688 4822 116 52175 100\Omega 5% 0.5W 3689 4822 116 52175 100\Omega 5% 0.5W | 6423 4822 130 34382 BZX79-C8V2 6425 4822 130 31983 BAT85 | (AU) | → |
| MHz 1105 4822 242 72547 5.5 MHz | 2439 4822 126 11308 47pF 5% 500V 2440 4822 126 12519 330oF 10% | □ | 3439 4 4822 116 52269 3k3 5% 0.5W 3440 4 4822 116 52199 680 5% 0.5W | 3690 4822 116 52175 100Ω 5% 0.5W 3691 4822 116 52284 47k 5% 0.5W | 6426 4822 130 31983 BAT85 6427 4822 130 31983 BAT85 | -11- | 6500 4822 130 80928 BZX79-C30 |
| 1106 4822 242 72057 6.5 MHz 1204 4822 242 71207 4.5 MHz | 2441 4 4822 126 11382 1nF 10% 1KV | 3000 4822 116 52263 2k7 5% 0.5W 3004 4822 116 52207 1k2 5% 0.5W | 3441 4822 053 10223 22k 5% 1W 3442 4822 116 52289 5k6 5% 0.5W | 3693 4822 116 52284 47k 5% 0.5W | 6428 4822 130 34382 BZX79-C8V2 6438 4822 130 34328 BZX79-B30 | 2506 5322 121 10472 47MU/25 | 6501 4822 130 80928 BZX79-C30 6502* 4822 130 80858 1N5062 |
| 1206 4822 242 81529 5.5 MHz 1207 4822 242 81301 6.5 MHz | 2442 4822 122 32986 560pF 50 | 3005 4822 116 52207 1k2 5% 0.5W | 3443 4822 050 21802 1k8 1% 0.6W | 3694 4822 116 52195 47Ω 5% 0.5W 36964 4822 116 52283 4k7 5% 0.5W | 6439 4822 130 31631 BYV10-20 | 2507 4822 121 43526 47nF 5% 250V 2508 4822 121 43187 27nF 5% 250V | 6503 4 4822 130 80858 1N5062 6504 4 4822 130 80858 1N5062 |
| 1208 4822 153 30025 6.0 MHz 1208 4822 242 81529 5.5 MHz | 2442 4822 126 13172 560pF 10% 500V 2443 4822 124 40196 220µF 20% 16V | 3010≜ 4822 052 10109 10Ω 5% 0.33W 3016≜ 4822 116 52269 3k3 5% 0.5W | 3444 4822 053 11562 5k6 5% 2W 3445 4822 116 52195 47Ω 5% 0.5W | 3697 4822 116 52175 100Ω 5% 0.5W 3698 4822 116 52175 100Ω 5% 0.5W | 6441 4 4822 130 30621 1N4148 6442 4822 130 42606 BYD33J | 2510 5322 122 32491 1nF 20% 100V 2510 5322 122 32334 220pF 10% 100V | 6505 4 4822 130 80858 1N5062 6506 4822 130 34499 BZX79-C20 |
| 1275 4822 242 81691 4.433619 MHz | 2444 4822 121 43139 180nF 10% 100V 24454 4822 126 12269 680pF 10% (HR) | 3017 4822 116 52257 22k 5% 0.5W 30184 4822 116 52256 2k2 5% 0.5W | 3446 4822 116 52213 180Ω 5% 0.5W | 3699 4822 116 52303 8k2 5% 0.5W 3700 4822 116 52284 47k 5% 0.5W | 6443 4822 130 42489 BYD33G 6445 4822 130 80432 BY627 | 2511 5322 122 32491 1nF 20% 100V 2511 5322 122 32334 2200F 10% 100V | |
| 1277 4822 242 81575 3.579500 MHz | 2KV 2446 4822 121 70355 5.6nF 5% 2KV | 3106 4822 116 52228 680Ω 5% 0.5W 3113 4822 050 11002 1k 1% 0.4W | 3446 4822 116 52216 240Ω 5% 0.5W 3447 4822 116 52296 6k8 5% 0.5W | 3700 4822 116 52284 47K 5% 0.5W 3702 4822 116 52239 120K 5% 0.5W 3703 4822 116 52284 47K 5% 0.5W | 6446 4822 130 80432 BY627 6446 4822 130 83457 BYD34M 6446 5322 130 31559 BY448 | 2512 4822 121 51319 1µF 10% 63V 2514 4822 126 12639 2.2nF 20% | Scan protection panel |
| 1449 4822 071 54001 Fuse 400 mA T 1449 4822 071 55001 Fuse 500 mA T | 2446 4822 121 70465 11nF 5% 1.6KV 2447 4822 126 12272 1nF 10% (HR) 2KV | 3128 4822 050 11002 1k 1% 0.4W | 34484 4822 052 10108 1Ω 5% 0.33W 34484 4822 052 11108 1Ω 5% 0.5W | 3703 4822 116 52284 47K 5% 0.5W 3704 4822 116 52233 10K 5% 0.5W 3706 4822 116 52252 180K 5% 0.5W | 6446 5322 130 31559 BY448 6447 4822 130 42488 BYD33D 64474 4822 130 83457 BYD34M | 2515 4822 126 12639 2.2nF 20% | 21" [A] |
| 15004 4822 070 33152 Fuse 3.15 AT 15404 4822 071 52502 Fuse 2.5 A T | 2447 4822 126 12273 1200pF 10% (HR) 2KV | 3198 4822 116 52234 100k 5% 0.5W 3198 4822 116 52285 470k 5% 0.5W | 3449* 4822 050 21802 1k8 1% 0.6W 3450 4822 050 22202 2k2 1% 0.6W | 3706 4822 116 52252 180k 5% 0.5W | 6449 4822 130 42489 BYD33G | 2516 4822 124 80371 4.7µF 50V 2517 4822 126 11157 470pF 10% 500V | Various |
| 1630 4822 242 81727 10MHz | 2448 4822 124 22583 47μF 160V | 3198 4822 116 52291 56k 5% 0.5W 3198 4822 116 52297 68k 5% 0.5W | 3451 4822 116 52271 33k 5% 0.5W 34524 4822 052 11108 1Ω 5% 0.5W | 3708 4822 116 52234 100k 5% 0.5W | 6450 4822 130 42488 BYD33D | 2517 4822 126 11157 470PF 10% 500V 2518 4822 126 12641 4.7nF 20% | 4822 212 31423 Scan protection |
| -II- | 2449 4822 126 11382 1nF 10% 1KV 2450 4822 121 42073 390 nF 10% 400V | 3198 4822 116 52303 8k2 5% 0.5W 3199 4822 116 52251 18k 5% 0.5W | 3453* 4822 052 10222 2k2 5% 0.33W 3454* 4822 052 10222 2k2 5% 0.33W | 3709 4822 050 11002 1k 1% 0.4W 3710 4822 116 52222 390Ω 5% 0.5W | 6451 4822 130 42488 BYD33D 6452 4822 130 42488 BYD33D | | panel 21° |
| 2001 4822 126 12642 10nF 20% 50V | 2450 4822 121 42442 560nF 200V 2451 5322 124 40641 10µF 20% 100V | 3199 4822 116 52257 22k 5% 0.5W 3201 4822 050 11002 1k 1% 0.4W | 3456* 4822 053 20334 330k 5% 0.25W | 3713 4822 116 52278 390k 5% 0.5W 3715 4822 116 52249 1k8 5% 0.5W | 6455 4822 130 34382 BZX79-C8V2 6470 4822 130 42489 BYD33G | <u> </u> | 4822 265 30742 4 pins F-pin connector |
| 2007 4822 121 41856 22nF 5% 250V 2008 5322 121 42386 100nF 5% 63V | 2452 4822 124 22582 2.2mF 20% 16V 2452 4822 124 40432 1500uF 20% 25V | 3204 | 3460 4822 116 52254 20k 5% 0.5W 3470≜ 4822 052 10828 8Ω2 5% 0.33W | 37174 4822 116 52269 3k3 5% 0.5W 37184 4822 116 52269 3k3 5% 0.5W | 6480 4822 130 61219 BZX79-C10 6500 4822 130 82158 D3SBA60 | 3508 4822 116 52249 1k8 5% 0.5W 35104 4822 116 52283 4k7 5% 0.5W | - |
| 2009 4822 126 12642 10nF 20% 50V 2010 4822 124 40202 1500µF 20% 16V | 2453 4822 124 41747 680µF 20% 35V 2456 4822 126 11308 47pF 5% 500V | 3206 4822 116 52175 100Ω 5% 0.5W | 3480* 4822 052 10108 162 5% 0.33W 3481 4822 116 52284 47k 5% 0.5W | 3719 4822 116 52233 10k 5% 0.5W 3726 4822 116 52283 4k7 5% 0.5W | 6506 4822 130 34499 BZX79-C20 6507 4822 130 80928 BZX79-C30 | 3511 4822 116 52264 27k 5% 0.5W 3512 4822 100 20166 10k 30%LIN 0.1W | · · |
| 2016 4822 126 12642 10nF 20% 50V 2017 4822 122 31348 120pF 2% 100V | 2457 4822 121 43405 18nF 10% 250V | 3206 4822 116 52213 180Ω 5% 0.5W | 3482 4822 116 52284 47k 5% 0.5W | 37274 4822 116 52283 4k7 5% 0.5W | 6508 4822 130 80928 BZX79-C30 65124 4822 130 30621 1N4148 | 3514 4822 050 11002 1k 1% 0.4W 3515 4822 116 52256 2k2 5% 0.5W | 3436 4822 116 52303 8k2 5% 0.5W 3437 4822 116 52249 1k8 5% 0.5W |
| 2026 4822 122 31056 12pF 2% 100V 2027 4822 126 12642 10nF 20% 50V | 2457 4822 121 70466 82nF 10% 250V | 3207 4 4822 116 52269 3k3 5% 0.5W 3208 4822 050 11002 1k 1% 0.4W | 3483 4822 116 52283 4k7 5% 0.5W 3484 4822 100 11213 22k 30% LIN 0.1W | 37284 4822 116 52283 4k7 5% 0.5W 4xxx 4822 051 10008 0Ω 5% 0.25W | 65134 4822 130 30621 1N4148 | 3515 4822 116 52231 820Ω 5% 0.5W 3517 4 4822 052 10339 33Ω 5% 0.33W | 3438 ' 4822 116 52259 2k4 5% 0.5W |
| 2101 4822 122 33532 3.3nF 5% 50V | 2458 4822 121 70355 5.6nF 5% 2KV 2460 4822 121 51385 33nF 20% 100V | 3210 4822 116 52234 100k 5% 0.5W | 3485 4822 050 11002 1k 1% 0.4W 3486 4822 116 52291 56k 5% 0.5W | | 6519 5322 130 30521 1N4146 6519 5322 130 31574 BZT03-C15 | 3517 ⁴ 4822 052 10229 22Ω 5% 0.33W 3518 ⁴ 4822 052 10471 470Ω 5% 0.33W | →1 - |
| 2102 4822 122 31072 47pF 2% 100V 2102 4822 128 12789 82oF 5% 50V | 2472 4822 126 12792 2.2nF 10% 500V | 3213 4822 116 52234 100k 5% 0.5W | 3487 4822 116 52235 1M 5% 0.5W | | 65264 4822 130 32896 BYD33M 65294 4822 130 33531 BY229F-600 | 35184 4822 052 10151 150Ω 5% 0.33W | 6438 4822 130 31024 BZX79-B18 |
| 2103 4822 121 51231 820pF 1% 400V | 2480 4822 124 80604 47µF 20% 50V 2481 4822 121 43526 47nF 5% 250V | 3214 4822 050 11002 1k 1% 0.4W 32254 4822 116 52283 4k7 5% 0.5W | 3488 4822 116 52234 100k 5% 0.5W 3501 4822 116 40204 30Ω 30% | 5014 4822 157 63065 0.68μH 5020 4822 157 70439 Toko | 6531 4 4822 130 33531 BY229F-600 | 3523 4822 116 52245 150k 5% 0.5W 3523 4822 116 52278 390k 5% 0.5W | 6442 4822 130 42606 BYD33J |
| 2104 4822 124 40248 10µF 20% 63V 2112 4822 122 31072 47pF 2% 100V | 2482 4822 124 40242 1µF 20% 63V 2483 4822 124 40753 6.8µF 20% 63V | 3236 4822 116 52233 10k 5% 0.5W | 3501 4822 116 40247 1812 270V 3502 4822 111 20403 47012 10% | 5060 4822 157 71112 3.3µH 10% | 6541 4822 130 81104 MA689 | 3524 4822 116 52276 390R 5% 0.5W | ⊗ □ |
| 2112 4822 126 12519 330pF 10% 2123 4822 126 12639 2.2nF 20% | 2484 4822 126 12639 2.2nF 20% 2500 4 4822 121 51457 470nF 10% 275V | 3250 4822 116 52233 10k 5% 0.5W 3251 4822 116 52233 10k 5% 0.5W | 3503 4822 113 80646 1522 10% 5W 3503 4822 113 80647 1522 5% 5W | 5100 4822 157 71039 120µH 5% 51124 4822 157 52286 22µH 10% | 65424 4822 130 34173 BZX79-C5V6 6562 4822 130 34174 BZX79-C4V7 | 4xxx 4822 051 10008 063 5% 0.25W | 7446 4822 130 41646 BF423 |
| | 1 | 1 | 1 | 5112 4822 157 53906 47µH 10% | ı | | TOTAL TOTAL PROPERTY. |

| | 7 | 7 | | | | | |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| CRT panel (narrow neck) | 5338 4822 157 70702 8.2uH 10% | 3711 4822 116 52284 47k 5% 0.5W | 1801 4822 242 80276 10,000 000 MHz | 3140 4822 116 52283 4k7 5% 0.5W 3141 4822 116 52296 6k8 5% 0.5W | 3273 4822 116 52257 22k 5% 0.5W | 7195 4822 209 70672 LM358N | 2077 4822 124 40248 10µF 20% 63V |
| [E], [ÉE] | 5338 4822 157 52136 82µH 10% | & = | | 3143 4822 116 52263 2k7 5% 0.5W | 3275 4822 050 11002 1k 1% 0.4W 3276 4822 116 52226 560Q 5% 0.5W | 7205 4822 130 40938 BC548 7208 4822 130 40938 BC548 | 2078 4822 124 40248 10µF 20% 63V 2080 4822 124 40248 10µF 20% 63V |
| | | 1 | -I- | 3147 4822 116 52263 2k7 5% 0.5W | 3277 4822 050 11002 1k 1% 0.4W 3278 4822 116 52226 5600 5% 0.5W | 7219* 4822 130 44197 BC558B | 2092 4822 122 33496 100nF 10% 63V 2093 4822 124 40198 470uF 20% 16V |
| . Various | (-11- | 7684 4822 130 40938 BC548 7685 4822 130 40938 BC548 7686 4822 130 40938 BC548 | 2101 4822 121 41856 22nF 5% 250V | 3151 4 4822 116 52256 2k2 5% 0.5W 3152 4 4822 116 52256 2k2 5% 0.5W | 3283 4822 116 52296 6k8 5% 0.5W 3285 4822 116 52213 180Ω 5% 0.5W | 7240 5322 209 10576 HEF4053BP 7250 4822 130 40938 BC548 | 2096 4822 122 33496 100nF 10% 63V 20974 4822 124 41525 100µF 20% 25V |
| 4822 212 31347 CRT panel NN 21* | 6305 4822 130 34174 BZX79-C4V7 6306 4822 130 32896 BYD33M | 7685 4822 130 40938 BC548 7686 4822 130 40938 BC548 | 2140 4822 124 21443 2.2µF 20% 50V 21414 4822 124 40246 4.7µF 20% 63V | 3153 4822 116 52207 1k2 5% 0.5W 3154 4822 116 52207 1k2 5% 0.5W | 32864 4822 116 52199 68Q 5% 0.5W | 7260 4822 130 40938 BC548 | 2097 4822 124 41525 100µF 20% 25V |
| 4822 212 31343 CRT panel NN 25* 4822 255 70254 Holder valve | 6307 4822 130 34379 BZX79-C27 6308 4822 130 34379 BZX79-C27 | QSS panel [G] | 21444 4822 124 40246 4.7uF 20% 63V | 3155 4822 116 52277 39k 5% 0.5W | 32874 4822 116 52283 4k7 5% 0.5W | 7261 4822 130 40941 BC558 7265 4822 130 40938 BC548 | 0 |
| 4822 265 20366 1 pin header 2.35 | 6318 4822 130 34174 BZX79-C4V7 | GOS paner [G] | 2147 5322 124 41431 22µF 20% 35V 2148 4822 121 41856 22nF 5% 250V | 3156 4822 050 11002 1k 1% 0.4W 3157 4822 116 52226 560Ω 5% 0.5W | 3289 4 4822 116 52283 4k7 5% 0.5W 3291 4 4822 116 52283 4k7 5% 0.5W | 7266 4822 130 40941 BC558 7270 5322 209 10576 HEF4053BP | 3006 4822 116 52233 10k 5% 0.5W |
| 4822 265 30934 5 pins header | 6319 ⁴ 4822 130 32896 BYD33M 6327 4822 130 34174 BZX79-C4V7 | | 2149 4822 124 40248 10µF 20% 63V 2150 5322 121 42386 100nF 5% 63V | 3158 4822 116 52285 470k 5% 0.5W 3159 4822 116 52285 470k 5% 0.5W | 3294 4822 116 52291 56k 5% 0.5W | 7271 4822 130 40938 BC548 | 3007 4822 051 10271 270W 2% 0.25W |
| 4822 265 31153 5 pins header 21* (black) | 6328 4822 130 32896 BYD33M | Various | 2151 4822 126 12643 22nF 20% 50V | 31604 4822 116 52269 3k3 5% 0.5W | 3296 4822 116 52291 56k 5% 0 5W | 7275 4822 130 40938 BC548 | 3008 4822 051 10432 4k3 2% 0.25W 3009 4822 051 10271 270Ω 2% 0.25W |
| | & | 4822 212 31352 QSS panel 2CS | 2152 5322 121 42386 100nF 5% 63V | 3161 4822 116 52257 22k 5% 0.5W | 3297 4822 116 52271 33k 5% 0.5W 3300 4822 116 52238 12k 5% 0.5W | 7280 4822 130 40941 BC558 7285 4822 130 40938 BC548 | 3011 4822 051 10829 82% 2% 0.25W 3012 4822 118 52233 10k 5% 0.5W |
| ⊣⊢ | 1 | DK/NICAM I 4822 212 31338 QSS penel 2CS BG | 2153 4822 126 12643 22nF 20% 50V 2154 5322 121 42386 100nF 5% 63V | 3162* 4822 116 52269 3k3 5% 0.5W 3163 4822 116 52257 22k 5% 0.5W | 3311 4822 116 52233 10k 5% 0.5W 3315 4822 116 52175 100Ω 5% 0.5W | 7291 4822 130 40941 BC558 7315 4822 130 40938 BC548 | 3013 4822 051 10102 1k 2% 0.25W |
| 2302 4822 126 12643 22nF 20% 50V | 7305 4822 130 41773 BF869 7306 4822 130 40938 BC548 | 4822 212 31353 QSS panel NICAM BG/79 | 2155 5322 121 42386 100nF 5% 63V 2158 5322 124 41431 22uF 20% 35V | 3164 4822 050 11002 1k 1% 0.4W 31654 4822 116 52283 4k7 5% 0.5W | 3316 4822 116 52226 560Q 5% 0.5W | 7320 4822 130 40938 BC548 | 3018 4822 116 52249 1k8 5% 0.5W |
| 2304 5322 122 32311 470pF 10% 100V 2304 4822 126 12519 330pF 10% | 7306 4822 130 41376 BF494B 7318 4822 130 41773 BF869 | 4822 265 30351 5 pins male WTB (Q4) | 2157 4822 124 40248 10uF 20% 63V | 3167 4822 116 52257 22k 5% 0.5W | 33204 4822 116 52283 4k7 5% 0.5W | 7325 4822 130 40941 BC558 7800 4822 209 32863 TDA9840/V1 | 3020 4822 051 10182 1k8 2% 0.25W |
| 2306 4822 124 80495 4.7µF 20% 2309 4822 121 41926 33nF 5% 630V | 7319 4822 130 40938 BC548 | 4822 267 41154 4 pins female BTB | 2162 4822 121 43526 47nF 5% 250V | 3168 4822 116 52257 22k 5% 0.5W 3169* 4822 116 52193 39Ω 5% 0.5W | 3321 4822 116 52257 22k 5% 0.5W 3325 4822 116 52257 22k 5% 0.5W | 7820 4822 130 40938 BC548 7825 4822 130 40941 BC558 | 3024 4822 051 10332 3k3 2% 0.25W 3025 4822 051 10332 3k3 2% 0.25W |
| 2317 5322 122 32311 470pF 10% 100V | 7319 4822 130 41376 BF494B 7325 4822 130 40941 BC558 | (Q3) 1000 4822 242 81635 Saw filter | 2163 4822 121 43526 47nF 5% 250V 2164 4822 121 43526 47nF 5% 250V | 3170* 4822 116 52283 4k7 5% 0.5W 3171* 4822 116 52283 4k7 5% 0.5W | 3801 4822 100 11319 4k7 30% LIN 0.1W 3803 4822 116 52243 1k5 5% 0.5W | 7828 4822 130 40941 BC558 | 3028 4822 051 10104 100k 2% 0.25W |
| 2317 4822 126 12519 330pF 10% 2330 5322 122 32311 470pF 10% 100V | 7327 4822 130 41773 BF869 7328 4822 130 40938 BC548 | 1001 4822 242 80292 6.74 MHz 1001 4822 242 70485 5.74 MHz | 2165 4822 121 43526 47nF 5% 250V | 3172 4822 116 52292 560k 5% 0 5W | 3804 4822 050 11002 1k 1% 0.4W | 7829 4822 130 40938 BC548 | 3029 4822 051 10823 82k 2% 0.25W 3030 4822 051 10159 15\(\Omega\) 2% 0.25W |
| 2330 4822 126 12519 330pF 10% 2337 4822 126 12833 4.7nF 20% 2KV | 7328 4822 130 41376 BF494B | 1002 4822 242 72059 6.5 MHz | 2166 4822 121 43526 47nF 5% 250V | 3173 4822 116 52292 560k 5% 0.5W | 3804 4822 116 52243 1k5 5% 0.5W 3807 4822 116 52289 5k6 5% 0.5W | | 3033 4822 051 10223 22k 2% 0.25W 3034 4822 051 10223 22k 2% 0.25W |
| 2337 4822 121 70093 33nF 5% 2KV | Tan assistant (F) | 1002 4822 242 70714 5.5 MHz | 2167 4822 124 41407 0.47µF 20% 63V 2182 4822 124 22263 220µF 20% 25V | 3174 4822 116 52265 270k 5% 0.5W 3175 4822 116 52249 1k8 5% 0.5W | 3808 4822 052 10478 4Ω7 5% 0.33W 3810 4822 116 52175 100Ω 5% 0.5W | NICAM panel [K] | 3035 4822 116 52276 3k9 5% 0 5W |
| ************************************** | Top control [F] | ⊣ ⊢ | 2183 4822 122 33306 4.7nF 5% 50V 2184 5322 121 42661 330nF 5% 63V | 3176 4822 118 52249 1k8 5% 0.5W 31774 4822 116 52269 3k3 5% 0.5W | 100000000000000000000000000000000000000 | | 3040 4822 116 52175 100\(\Omega\) 5% 0.5W 3041 4822 116 52175 100\(\Omega\) 5% 0.5W |
| — | | 1 | 2185 4822 121 42408 220nF 5% 63V | 3178 4822 050 11002 1k 1% 0.4W | 3811 4822 116 52175 100\(\omega\) 5% 0.5W 3820 4822 116 52228 680\(\omega\) 5% 0.5W | Various | 3042 4822 051 10223 22k 2% 0,25W |
| 3300≜ 4822 052 11101 100Ω 5% 0.5W | 1024 4822 212 31341 Top control panel | 2000 4 4822 124 40433 47µF 20% 25V 2002 4 4822 124 40246 4.7µF 20% 63V | 2189 4822 121 51379 82nF 5% 63V 2191 4822 121 51379 82nF 5% 63V | 3179 4822 116 52233 10k 5% 0.5W 3180 4822 116 52271 33k 5% 0.5W | 3821 4822 050 11002 1k 1% 0.4W 3822 4822 116 52207 1k2 5% 0.5W | 4822 212 31348 NICAM I panel | 3043 4822 051 10103 10k 2% 0.25W |
| 3300 4 4822 052 10101 10012 5% 0.33W 3301 4822 116 52252 180k 5% 0.5W | 4822 276 13499 Switch push button | 2002 4822 124 41576 2.2µF 20% 50V 2002 4822 124 41576 2.2µF 20% 50V | 2192 4822 121 43823 470nF 5% 50V | 3185 4822 050 26808 618 1% 0.6W | 3822 4822 116 52207 1k2 5% 0.5W 3823 4822 116 52291 56k 5% 0.5W 3825 4822 116 52271 33k 5% 0.5W | 4822 212 31339 NICAM BG panel | 30444 4822 051 10103 10k 2% 0.25W 3045 4822 051 10824 820k 2% 0.25W |
| 3301 4822 116 52265 270k 5% 0.5W | IR + LED panel [F] | 2003 4 4822 124 40246 4.7µF 20% 63V 2003 4822 124 41576 2.2µF 20% 50V | 2193 4822 121 42408 220nF 5% 63V 2200 4822 124 40255 100uF 20% 63V | 3186 4822 050 26808 6Ω8 1% 0.6W 3187 4822 050 26808 6Ω8 1% 0.6W | 3826 4822 116 52291 56k 5% 0.5W | 4822 212 31355 NICAM BQ/79 panel | 3047 4822 051 10273 27k 2% 0.25W 3050 4822 116 52271 33k 5% 0.5W |
| 3302 4822 053 12123 12k 5% 3W 3303 4822 050 21502 1k5 1% 0.6W | The same of the sa | 2003 4822 124 41576 2.2µF 20% 50V | 2202 5322 121 42386 100nF 5% 63V | 3189 4822 116 52304 82k 5% 0.5W | 3827 4822 050 11002 1k 1% 0.4W 3828 4822 116 52291 56k 5% 0.5W | 4822 290 40295 7 pins male WTB 4822 265 40818 8 pins male WTB | 3051 4 4822 051 10103 10k 2% 0.25W 3052 4822 051 10104 100k 2% 0.25W |
| 3304 4822 116 52197 56Ω 5% 0.5W 3304 4822 116 52175 100Ω 5% 0.5W | | 2008 4822 121 51231 820pF 1% 400V | 2205 4822 121 42408 220nF 5% 63V 2206 4822 124 80854 1µF 20% 50V | 3190 4822 116 52276 3k9 5% 0.5W 3191 4822 116 52245 150k 5% 0.5W | 3829 4822 116 52256 2k2 5% 0.5W 4xxx 4822 051 10008 0Ω 5% 0.25W | 1018 4822 156 11158 Nyquist NICAM I | 3053 4822 116 52234 100k 5% 0.5W |
| 3305 4822 116 52219 330Ω 5% 0.5W | 1025 4822 212 31335 IR+LED panel 1500 4822 212 30842 IR receiver | 2009▲ 4822 124 40246 4.7µF 20% 63V | 2209 4822 124 40248 10µF 20% 63V 2210 4822 121 51252 470nF 5% 63V | 3192 4822 116 52289 5k6 5% 0.5W 3193 4822 116 52289 5k6 5% 0.5W | | 1028 4822 242 81188 13.104MHz | 3054 4822 051 10105 1M 5% 0.25W |
| 33054 4822 116 52217 270Ω 5% 0.5W | | 2010 4822 124 40246 4.7µF 20% 63V 2011 4 4822 124 40246 4.7µF 20% 63V | 2211 4822 126 12519 330pF 10% 50V | 3194 4822 116 52283 4k7 5% 0.5W | · | 1028 4822 242 81187 11.700MHz 1052 4822 242 81527 17.472MHz | 3055 4822 051 10102 1k 2% 0.25W 3057 4822 051 10152 1k5 2% 0.25W |
| 3306 4822 116 52246 1k6 5% 0.5W 3307 5322 100 11542 4k7 30% LIN | -1- | 2012 5322 122 32491 1nF 20% 100V | 2215 4822 121 51252 470nF 5% 63V 2216 4822 126 12519 330pF 10% 50V | 3195 4822 116 52213 180Ω 5% 0.5W 31994 4822 116 52269 3k3 5% 0.5W | 5200 4822 157 50964 100µH | | 3057 4822 051 10102 1k 2% 0.25W 3058 4822 051 10822 8k2 2% 0.25W |
| 0.1W | 2500 4822 124 41643 100µF 20% 16V | | 2226 5322 122 32491 1nF 20% 100V | 3201 4822 116 52201 75Ω 5% 0.5W | 5201 4822 157 50964 100µH 5801 4822 157 70467 1500µH | ⊣⊢ | 3058 4822 051 10153 15k 2% 0.25W |
| 3309 4822 116 52211 1500 5% 0.5W | | | 2235 4822 124 40248 10µF 20% 63V 2241 4822 124 40255 100µF 20% 63V | 3202 4822 050 11002 1k 1% 0 4W | 3801 4622 157 70467 1500µH | 2007 4822 122 31746 1nF 2% 63V | 3058 4 4822 051 10103 10k 2% 0.25W 3059 4 4822 116 52283 4k7 5% 0.5W |
| 3310 4822 116 52289 5k6 5% 0.5W 3311 4822 116 52289 5k6 5% 0.5W | →- . | 3000 4822 053 11829 82Ω 5% 2W 3001 4822 116 52226 560Ω 5% 0.5W | 2250 4822 121 51252 470nF 5% 63V | 3203 4822 116 52175 100Ω 5% 0.5W 3204 4822 050 11002 1k 1% 0.4W | → | 2008 4822 122 31981 33nF +-0.5pF 50V 2011 4822 122 31981 33nF +-0.5pF 50V | 3060* 4822 051 10472 4k7 2% 0.25W 3061 4822 051 10153 15k 2% 0.25W |
| 3312 4822 116 52289 5k6 5% 0.5W 3313 5322 100 11541 2k2 30% LIN | 6500 4822 130 82029 LTL307P | 3002 4822 116 52226 560Ω 5% 0.5W | 2251 4822 121 51252 470nF 5% 63V 2255 4822 124 40248 10µF 20% 63V | 3205 4822 050 11002 1k 1% 0.4W 3206 4822 116 52175 100Ω 5% 0.5W | 6101 4822 130 34488 BZX79-C11 | 2015 4822 122 32507 6.8pF 5% 50V 2018 4822 122 31748 1nF 2% 63V | 3062 4822 051 10153 15k 2% 0.25W |
| 0.1W | | 3003 4822 116 52224 470Ω 5% 0.5W 3004 4822 116 52224 470Ω 5% 0.5W | 2265 4822 124 40242 1µF 20% 63V 2267 4822 124 40242 1µF 20% 63V | 3207 4822 116 52285 470k 5% 0.5W 3208 4822 116 52201 75Ω 5% 0.5W | 6140 4822 130 34278 BZX79-C6V8 | 2019 4822 122 33496 100nF 10% 63V | 3061 4822 051 10123 12k 2% 0.25W |
| 3314 5322 100 11541 2k2 30% LIN 0.1W | Headphone panel [F] | 3005 4822 118 52224 470Ω 5% 0.5W 3013 4822 050 11002 1k 1% 0.4W | 2268 4822 124 40242 1µF 20% 63V | 32094 4822 116 52256 2k2 5% 0.5W | 6190 4822 130 30621 1N4148 6191 4822 130 34174 BZX79-C4V7 | 2020 4822 122 31797 22nF 10% 63V 2020 4 4822 122 32442 10nF 50V | 3062 4822 051 10123 12k 2% 0.25W 30674 4822 051 10472 4k7 2% 0.25W |
| 3315 4822 053 12123 12k 5% 3W | | 4xx 4822 050 11002 1k 1% 0.4W | 2269 4822 124 40242 1µF 20% 63V | 3210 4822 116 52201 75Ω 5% 0.5W | 6192 | 2020 4 4822 122 32442 10nF 50V 2021 4822 122 33496 100nF 10% 63V | 3067 4822 051 10562 5k6 2% 0.25W 3068 4822 051 10152 1k5 2% 0.25W |
| 3316 4822 050 21502 1k5 1% 0.6W 3317 ⁴ 4822 118 52197 56Ω 5% 0.5W | 1026 4822 212 31336 Headphone panel | | 2270 5322 122 32491 1nF 20% 100V 2271 5322 122 32491 1nF 20% 100V | 3211 4822 116 52258 220k 5% 0.5W 3212 4822 116 52175 100Ω 5% 0.5W | 6194* 4822 130 30621 1N4148 6195* 4822 130 30621 1N4148 | | 3068 4822 051 10102 1k 2% 0.25W |
| 3317 4822 116 52175 100Ω 5% 0.5W | 4822 267 41151 Headphone plug 4822 265 31072 5 pins male (H18) | <u> </u> | 2287 4822 124 40248 10µF 20% 63V 2311 4822 124 80854 1µF 20% 50V | 32134 4822 050 22702 2k7 1% 0.6W | 61964 4822 130 30621 1N4148 | 2022 4822 122 32442 10nF 50V 2024 4822 122 31768 180pF 2% 63V | 3069 4822 051 10822 8k2 2% 0.25W 3069 4822 051 10153 15k 2% 0.25W |
| 3318 ⁴ 4822 116 52219 330Ω 5% 0.5W 3318 ⁴ 4822 116 52217 270Ω 5% 0.5W | | 5003 4822 157 71117 38.9 MHz | 2315 4822 124 40248 10uF 20% 63V | 3214 4822 116 52175 100Ω 5% 0.5W 3215 4822 116 52258 220k 5% 0.5W | 6197 4822 130 30621 1N4148 | 2025 4822 122 31768 180pF 2% 63V 2028 5322 122 31842 330pF 2% 63V | 3069 4822 051 10153 15k 2% 0 25W 30694 4822 051 10103 10k 2% 0 25W 30704 4822 116 52283 4k7 5% 0.5W |
| 3319 4822 116 52246 1k6 5% 0.5W 3320 5322 100 11542 4k7 30% LIN | | 5004 4822 157 71116 5.5 and 5.74 MHz | 2801 4822 124 41576 2.2µF 20% 50V 2802 4822 124 41576 2.2µF 20% 50V | 3216 4822 050 22702 2k7 1% 0.6W 3220 4822 116 52284 47k 5% 0.5W | 6198 4822 130 34167 BZX79-C6V2 6201 4822 130 34382 BZX79-C8V2 | 2029 4822 122 32597 6.8nF 10% 63V 2030 4822 122 31746 1nF 2% 63V | i |
| 0.1W | 2525 4822 124 41643 100µF 20% 16V | 5005 4822 157 71115 6.5 and 6.74 MHz 5005 4822 157 71116 5.5 and 5.74 MHz | 2803 5322 122 32356 820pF 10% 100V 2805 4822 121 51372 5.6nF 2% 250V | 3229 4822 116 52234 100k 5% 0.5W 3231 4822 116 52234 100k 5% 0.5W | 16202 4822 130 34382 BZX79-CRV2 | 2033 4822 122 31767 150pF 2% 63V | 3071 4 4822 051 10472 4k7 2% 0.25W 3072 4822 116 52233 10k 5% 0.5W |
| 3321 4822 116 52175 100Ω 5% 0.5W 3322 4822 116 52222 390Ω 5% 0.5W | 2526 4822 124 41643 100µF 20% 16V | 5007 4822 157 71111 1.8µH 10% | 2807 5322 121 42386 100nF 5% 63V | 3233 4822 116 52233 10k 5% 0.5W | 6203 4822 130 34382 BZX79-C8V2 6204 4822 130 34382 BZX79-C8V2 | 2034 4822 122 31767 150pF 2% 63V 2038 4822 122 31766 120pF 2% 63V | 3073 4 4822 051 10103 10k 2% 0.25W 3074 4822 051 10104 100k 2% 0.25W |
| 3323 4822 116 52211 150Ω 5% 0.5W | | & | 2808 4822 124 40248 10µF 20% 63V | 3235 4822 116 52233 10k 5% 0.5W | 6205 4822 130 34382 BZX79-C8V2 6206 4822 130 34382 BZX79-C8V2 | 2040 4 4822 122 32442 10nF 50V | 3075 4822 116 52234 100k 5% 0.5W 3076 4822 116 52234 100k 5% 0.5W |
| 3324 4822 116 52243 1k5 5% 0.5W 33254 4822 116 52269 3k3 5% 0.5W | | | 2809 4822 121 41857 10nF 5% 250V 2810 4822 124 41643 100µF 20% 16V | 3236 4822 116 52234 100k 5% 0.5W 3238 4822 116 52234 100k 5% 0.5W | 6207 4822 130 34382 BZX79-C8V2 6208 4822 130 34382 BZX79-C8V2 | 2041 5322 122 32838 82nF 10% 63V 2042 4822 122 32442 10nF 50V | 3077 4822 116 52234 100k 5% 0.5W |
| 3325 4822 116 52256 2k2 5% 0.5W | 3531 4 4822 050 28209 82Ω 1% 0.6W 3532 4 4822 116 52219 330Ω 5% 0.5W | 7000 4822 209 63784 TDA3857/V3 7001 4822 130 40941 BC558 | 2811 5322 121 42386 100nF 5% 63V 2813 4822 124 41576 2.2µF 20% 50V | 32394 4822 116 52283 4k7 5% 0.5W 3242 4822 116 52276 3k9 5% 0.5W | 6222 4822 130 34382 BZX79-C8V2 | 2043 4822 124 40433 47uF 20% 25V | 3080 4822 051 10511 510Ω 2% 0.25W |
| 3326 ⁴ 4822 116 52217 270Ω 5% 0.5W 3327 4822 116 52228 680Ω 5% 0.5W | 3533 4 4822 050 28209 82Ω 1% 0.6W 3534 4 4822 116 52219 330Ω 5% 0.5W | | 2814 4822 124 41576 2.2uF 20% 50V | 3244 4822 116 52233 10k 5% 0.5W | 6275 4822 130 30621 1N4148 | 2044 4822 122 32891 68nF 10% 63V 2045 4822 121 42408 220nF 5% 63V | 3081 4822 116 52304 82k 5% 0.5W |
| 3328 4822 053 12123 12k 5% 3W 3329 4822 050 21502 1k5 1% 0.6W | | 2CS + I/O + amplification | 2818 4822 124 41578 2.2µF 20% 50V | 32454 4822 116 52283 4k7 5% 0.5W 3246 4822 116 52284 47k 5% 0.5W | 6276 4822 130 30621 1N4148 6295 4822 130 34174 BZX79-C4V7 | 2046 4822 122 33496 100nF 10% 63V 2049 4822 122 31746 1nF 2% 63V | 3082 4822 116 52233 10k 5% 0.5W |
| 33304 4822 116 52197 56Ω 5% 0.5W | Volume control panel [F] | panel [H], [I], [J] | 2820 4822 121 41857 10nF 5% 250V 2821 4822 121 41857 10nF 5% 250V | 3247 4822 116 52233 10k 5% 0.5W 3248 4822 050 11002 1k 1% 0.4W | 6296 4 4822 130 30621 1N4148 6298 4 4822 130 30621 1N4148 | 2050 4822 122 31746 1nF 2% 63V | 3083 4 4822 051 10103 10k 2% 0.25W 3084 4822 116 52284 47k 5% 0.5W |
| 3330 4822 116 52175 100Q 5% 0.5W 3331 4822 116 52211 150Q 5% 0.5W | l | | 2825 4822 124 40248 10µF 20% 63V | | 6823 4 4822 130 30621 1N4148 | 2052 4822 122 31767 150pF 2% 63V 2055* 4822 124 40433 47µF 20% 25V | 3085* 4822 051 10103 10k 2% 0.25W 3086* 4822 051 10472 4k7 2% 0.25W |
| 3332≜ 4822 116 52219 330Ω 5% 0.5W | Various | Various | 2828 4822 124 40248 10µF 20% 63V 2828 4822 124 41566 3.3µF 20% 50V | 32504 4822 116 52283 4k7 5% 0.5W | 6828 5322 130 31504 BZX79-C3V3 | 2057 4822 122 32541 27nF 10% 63V | 3092 4822 116 52222 3900 5% 0.5W 3093 4822 051 10479 470 2% 0.25W |
| 33324 4822 116 52217 270Ω 5% 0.5W 3333 4822 116 52246 1k6 5% 0.5W | | | | 3251 4822 116 52257 22k 5% 0.5W 3252 4822 116 52289 5k6 5% 0.5W | & | 2057 4822 122 33608 39nF 10% 63V 2058 5322 122 31648 12nF 10% 50V | 4xxx 4822 051 10008 0Ω 5% 0.25W |
| 3334 5322 100 11542 4k7 30% LIN | 4822 212 31354 Vol control panel 21* | 4822 265 20366 1 pin 2.35 mm 4822 264 40207 3 pins male WTB | | 3253 4822 116 52207 1k2 5% 0.5W 3254 4822 116 52289 5k6 5% 0.5W | 7105 4822 130 40938 BC548 | 2058 4822 122 31759 18nF 10% | |
| 3335 4822 116 52175 100Ω 5% 0.5W | 4822 212 31357 Vol control panel 25" | 4822 265 30913 3 pins male WTB for A20 | 3101 4822 116 52175 100Ω 5% 0.5W 3105 4822 116 52263 2k7 5% 0.5W | 3255 4822 116 52207 1k2 5% 0.5W | 7106 4822 130 40941 BC558 | 2060 4822 122 33498 2.7nF 10% 63V 2061 4822 122 32999 2.2nF 5% 2061 4822 122 33498 2.7nF 10% 63V | |
| 3336 4822 050 21502 1k5 1% 0.6W 3337 4822 050 21502 1k5 1% 0.6W | | 4822 264 40207 3 pins male WTB | 3106 4822 116 52233 10k 5% 0.5W | 3256 4822 116 52271 33k 5% 0.5W 3257 4822 116 52284 47k 5% 0.5W | 7110 4822 130 40938 BC548 7115 4822 130 40941 BC558 | 2062 4822 122 31773 560pF 2% 63V | 5001 4822 157 51157 3.3µH 5020 4822 157 51157 3.3µH |
| 3338* 4822 116 52283 4k7 5% 0.5W 3339* 4822 116 52283 4k7 5% 0.5W | ⊣⊢ | 4822 265 30378 4 pins male WTB 4822 265 30351 5 pins male WTB | 3108 4 4822 116 52256 2k2 5% 0.5W 3110 4822 116 52243 1k5 5% 0.5W | 3258 4822 116 52289 5k6 5% 0.5W | 7120 4822 130 40938 BC548 7125 4822 130 40941 BC558 | 2064 4822 122 31797 22nF 10% 63V | 5024 4822 157 50975 1 mH |
| 3340 4 4822 116 52283 4k7 5% 0.5W | 2686 4822 124 40242 1µF 20% 63V | 4822 265 40421 6 pins male WTB 4822 265 40421 6 pins male WTB | 3112 4822 116 52285 470k 5% 0.5W 31154 4822 116 52283 4k7 5% 0.5W | 3260 4822 116 52211 150\(\omega\) 5% 0.5W 3262 4822 116 52271 33k 5% 0.5W | 7130 4822 130 40941 BC558 | 2065 4822 121 51319 1µF 10% 63V | 5025 4822 157 50975 1 mH 5042 4822 157 51157 3.3µH |
| 33444 4822 052 10188 1Ω8 5% 0.33W | 2689 5322 122 32491 1nF 20% 100V | 4822 290 40295 7 pins male WTB 4822 265 40818 8 pins male WTB | 31164 4822 116 52283 4k7 5% 0.5W | 3263 4822 116 52284 47k 5% 0.5W | 7135 4822 130 40938 BC548 7140 4822 130 40938 BC548 | 2068 4822 122 32541 27nF 10% 63V 2068 4822 122 33608 39nF 10% 63V | 5045 4822 157 51157 3.3µH 5050 4822 157 51157 3.3µH |
| 3345 4822 052 10188 1Ω8 5% 0.33W 4xxx 4822 051 10008 0Ω 5% 0.25W | | | 3120 4822 116 52263 2k7 5% 0.5W 3121 4822 116 52256 2k2 5% 0.5W | 3264 4822 116 52289 5k6 5% 0.5W 3265 4822 116 52211 150Ω 5% 0.5W | 7150 4822 130 40938 BC548 | 2069 5322 122 31648 12nF 10% 50V | 5063 4822 157 51157 3.3uH |
| -542 057 10000 032 5% 0.25W | \Box | 4822 492 70788 IC spring for amplifiers | 3124 4822 116 52233 10k 5% 0.5W | 3267 4822 116 52219 3300 5% 0.5W | 7151 4822 130 40938 BC548 | 2070 4822 122 32999 2.2nF 5% | 5092 4822 157 51157 3.3µH |
| | 3681 4822 050 22203 22k 1% 0.6W 3682 4822 116 52257 22k 5% 0.5W | 4822 267 41149 6 pole cinch block 4822 460 11004 Ornamental plate | 3126 4822 116 52303 8k2 5% 0.5W | 3268 4822 050 21501 150Ω 1% 0.6W | 7152 4822 130 40938 BC548 7190 4822 209 32531 TDA7056A/N2 | 2070 4822 122 33498 2.7nF 10% 63V 2071 4822 122 33498 2.7nF 10% 63V | - |
| 5306 4822 157 71114 470µH 10% | 3683 4822 116 52257 22k 5% 0.5W | cinch only | 3130 4822 116 52233 10k 5% 0.5W 3135 4822 116 52243 1k5 5% 0.5W | 3269 4822 050 21501 1501 1% 0.6W 3270 4822 116 52234 100k 5% 0.5W | 7191 4822 209 32531 TDA7056A/N2 7192 4822 209 32531 TDA7056A/N2 | 2072 4822 122 31773 560pF 2% 63V 2075 4822 122 31797 22pF 10% 63V | 6028 5322 130 34953 BB405B |
| 5319 4822 157 71114 470µH 10% | 3684 4822 050 21003 10k 1% 0.6W 3686 4822 050 21003 10k 1% 0.6W | 4822 460 11005 Ornamental plate cinch + SVHS | 3136 4822 116 52257 22k 5% 0.5W 3137 4822 116 52284 47k 5% 0.5W | 3271 4822 116 52283 4k7 5% 0.5W | 7193 4822 130 63427 BD534FI | 2076 4822 121 51319 1uF 10% 63V | 6043 4822 130 80446 LL4148 |
| | | _ | | 5271- 4022 110 32203 4K/ 5% U.5W | 7194 4822 130 40938 BC548 | 1 | 6045 4822 130 80446 LL4148 |

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| 3h | are pa | 1112 1121 | / 3 | lukiiste | e / Liste | u |
|----------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------|
| 6049 6080 | 5322 13) 31684 4822 130 80446 | BB809 LL4148 | 2810 2811 | 4822 122 33496 4822 122 33496 | 100nF 10% 63V 100nF 10% 63V | 160 |
| | 4022 130 00440 | | | 4822 122 33496 | 100nF 10% 63V | ١٩ |
| 6081 6082 6083 | 4822 130 80446 | LL4148 LL4148 LL4148 | 2812 2813 4 2814 | 4822 122 33490 | 1000F 10% 03V | 780 330 |
| | 4822 130 80446 4822 130 80446 4822 130 80446 4822 130 80954 | LL4148 LLZ-C5V6 | 2814 2815 | 4822 122 33496 4822 122 32442 4822 122 31773 4822 122 33496 | 10nF 50V 560pF 2% 63V 100nF 10% 63V | 330 |
| 6096 | 4822 130 80954 | LLZ-C5V6 | 2815 | 4822 122 31825 | 27pF 2% 63V 15pF 2% 63V | 780 780 |
| ØE | = | | 2817 | 4822 122 32504 | | 780 780 |
| 7007 | 5322 130 42136 | BC848C | 2818 2819 | 5322 122 31647 4822 122 31727 | 1nF 10% 63V 470pF 2% 63V | 781 |
| 7013 | 5322 130 42136 5322 130 42136 4822 130 60514 | BC848C BC859B | 2820 | 4822 122 31797 4822 122 32142 | 470pF 2% 63V 22nF 10% 63V | 781 |
| 7015 7025 | 4822 130 60514 4822 209 30909 | BC859B TDA8732/C1 | 2821 2822 | 4822 122 32142 | 270pF 2% 63V | 782 782 |
| 7040 | 5322 130 42136 | BC848C | 2823 | 4822 122 31765 4822 122 31965 | 270pF 2% 63V 100pF 2% 63V 220pF 2% 63V | 1 |
| 70454 | 4822 209 30914 | SAA7280P/M3 BC848C | 2824 | 4822 122 22801 | | 783 |
| 7055 | 5322 130 42136 4822 209 73236 4822 209 83163 | TDA1543/N2 | 2826 | 4822 124 41525 4822 122 32504 4822 122 32542 | 100µF 20% 25V 15pF 2% 63V | 784 784 |
| 7060 4 | 4822 209 83163 4822 209 83163 | LM833N LM833N | 2827 | 4822 122 32542 | 47nF 10% 63V | l |
| 7075 | 5322 209 10576 | HEF4053BP | 2828 2829 4 | 4822 122 32542 | 47nF 10% 63V | t |
| 7080 | 4822 130 42513 5322 130 42138 | BC858C | 2830 | 4822 124 40433 4822 122 32542 | 47μF 20% 25V 47ηF 10% 63V 2.2μF 20% 50V | l |
| 7081 7093 | 5322 130 42136 4822 130 63558 | BC848C BD533 | 2833 | 4822 124 41576 | 2.2µF 20% 50V | l |
| 7093 | 4822 130 63556 | BU333 | 2846 A | 4822 124 41584 4822 124 40196 4822 124 21212 | 100µF 20% 10V 220µF 20% 16V | |
| TXT | interface | panel [M] | 2849 | 4822 124 21212 | 15μF 20% 40V | |
| | | | | | | |
| Vario | us | | 3795 3796 | 4822 051 10392 4822 051 51201 4822 116 52176 | 3k9 2% 0.25W 120Ω 1% 0.125W | 1 |
| | 4822 212 31351 | TXT interface | 3797 | 4822 116 52176 | 10Ω 5% 0.5W | |
| | 4822 264 40207 | panel | 3798 3800 4 | 4822 051 51201 4822 051 10103 | 120Ω 1% 0.125W 10k 2% 0.25W 1M 5% 0.25W | |
| | 4822 265 30378 4822 267 50591 | 3 pins male WTB 4 pins male WTB 6 pins male BTB | 3801 | 4822 051 10105 | 1M 5% 0.25W | 1 |
| | 4822 267 50591 | 6 pins male BTB (AU) | 3802 3803 | 4822 051 10101 4822 051 10101 | 1000 2% 0 25W | |
| | 4822 264 50148 | 8 pins male BTB | 3804 | 4822 051 10101 | 100Ω 2% 0.25W 100Ω 2% 0.25W | 1 |
| | | (AU) | 3805 | 4822 051 10122 | 1k2 2% 0.25W | |
| ⊣ ⊢ | | | 3807 3808 4 | 4822 051 10622 4822 051 10103 | 6k2 2% 0.25W 10k 2% 0.25W | |
| | | | 3809 | 4822 051 10132 | 1k3 2% 0.25W | 1 |
| 2900 | 4822 124 41585 | 2.2µF 20% 50V | 3810 3811 | 4822 051 10333 4822 051 10223 | 33k 2% 0.25W 22k 2% 0.25W | 1 |
| | | | 3812 | 4822 051 10332 | 3k3 2% 0.25W | 1 |
| \Box | | | 3813 3814 | 4822 051 10102 4822 050 11002 | 1k 2% 0.25W 1k 1% 0.4W | 1 |
| 3900 | 4822 116 52244 | 15k 5% 0.5W | 3815 | 4822 051 10152 | 1k5 2% 0.25W | İ |
| 3901 4 | 4822 116 52283 4822 116 52207 4822 116 52229 4822 116 52231 4822 116 52207 | 4k7 5% 0.5W 1k2 5% 0.5W | 3816 | 4822 051 10683 | 68k 2% 0.25W | 1 |
| 3903 | 4822 116 52229 | 750Q 5% 0.5W | 3817 | 4822 051 10122 | 1k2 2% 0.25W | 1 |
| 3904 3905 | 4822 116 52231 | 820Ω 5% 0.5W 1k2 5% 0.5W | 3818 3819 | 4822 051 10122 4822 051 10122 | 1k2 2% 0.25W 1k2 2% 0.25W | |
| 3906 | 4822 116 52207 | 22Ω resonator | 3819 | 4822 051 10122 | 1k2 2% 0.25W 1k2 2% 0.25W | l |
| | | | 3821 | 4822 051 10122 | 1k2 2% 0.25W | l |
| -₩- | | | 3822 3823 | 4822 051 10122 4822 051 10122 | 1k2 2% 0.25W 1k2 2% 0.25W | |
| | | | 3824 | 4822 051 10332 | 3k3 2% 0.25W | |
| 69004 | 4822 130 30621 4822 130 30621 4822 130 34382 | 1N4148 1N4148 | 3825 3826* | 4822 051 10332 4822 052 11108 | 3k3 2% 0.25W | 1 |
| 6905 | 4822 130 34382 | BZX79-C8V2 | ł | | | |
| ~ = | | | 3827 3828 | 4822 051 10332 4822 051 10829 | 3k3 2% 0.25W 82Ω 2% 0.25W | |
| Ø. | | | 3839 | 4822 051 10122 | 1k2 2% 0.25W | 1 |
| 7900 | 4822 130 40938 | BC548 | 3841 | 4822 051 10122 4822 051 10122 | 1k2 2% 0.25W 1k2 2% 0.25W | |
| 7901 | 4822 130 40938 4822 130 40941 | BC548 BC558 | 3842 | 4822 051 10122 | 1k2 2% 0.25W 1k2 2% 0.25W | |
| | | | 3843 3845 | 4822 051 10122 4822 052 10689 | 1k2 2% 0.25W 68Q 5% 0.33W | |
| TXT | panel [N] | | 3846▲ | 4822 052 10689 | 68Ω 5% 0.33W 68Ω 5% 0.33W | |
| | | | 3847 | 4822 051 10829 | 82Ω 2% 0.25W | ŀ |
| Vario | us | | 3848 3849 | 4822 051 10181 4822 051 10102 | 180Ω 2% 0.25W 1k 2% 0.25W | |
| - 2110 | | | 3850 | 4822 051 20222 | 2k2 5% 0.1W | |
| | 4822 212 31349 | ECCT TXT FLOF | 3852 | 4822 051 20222 | 2k2 5% 0.1W 2k2 5% 0.1W 1k8 2% 0.25W | |
| | 4822 212 31358 | ANZ ECCT TXT EAST | 3999 4xxx | 4822 051 10182 4822 051 10008 | 1k8 2% 0.25W 0Ω 5% 0.25W | 1 |
| • | 4822 265 40469 | EU ANZ 6 pins female side BTB (AU) | _ | | | |
| | 4822 265 40471 | 8 pins female side | 5800 | 4822 156 20966 | 47 μH | Ì |
| 1801 | 4822 242 73552 | BTB (AU) 13,875 000 MHz | 5801 | 4822 157 52840 | COIL | |
| 1802 | 4822 242 71508 | 6.00 MHz | 5803 5814 | 4822 157 52825 4822 157 53609 | COIL 60 µH | 1 |
| ⊣⊢ | | | 5816 5847 | 4822 157 52825 4822 157 53608 4822 157 52224 4822 157 51157 | 15µH 3.3µH | |
| 2793 | 4822 122 32542 4822 122 31769 | 47nF 10% 63V | | | · · · · · · · · · · · · · · · · · · · | |
| 2794 2796 | 4822 122 31769 | 47nF 10% 63V 18pF 2% 63V 18pF 2% 63V | 6809 | 4822 130 80446 | LL414R | 1 |
| 2797 | 4022 122 32003 | BOOF ON SOY | 6810 | 4822 130 80446 4822 130 80446 | 114148 | 1 |
| 2798 | 4822 122 33496 | 100nF 10% 63V | 6811 | 4822 130 80446 | LL4148 | 1 |
| 2800 | 4822 122 33496 4822 124 41584 4822 122 32442 4822 122 31972 | 100nF 10% 63V 100µF 20% 10V 10nF 50V 39pF 2% 63V | 6812 | 4822 130 80446 4822 130 80446 4822 130 81223 4822 130 80446 4822 130 42489 4822 130 80905 | LL4148 LLZ-C2V4 | 1 |
| 28014 | 4822 122 32442 4822 122 31972 | 39pF 2% 63V | 6813 6814 | 4822 130 81223 4822 130 80448 | LLZ-C2V4 LL4148 | 1 |
| 2803 | 4822 122 31972 | 39pF 2% 63V | 6847 | 4822 130 42489 | BYD33G | 1 |
| | | | 6848 | 4822 130 80905 | LLZ-F5V1 | 1 |

2804 4822 122 31766 120pF 2% 63V 2805 4822 122 31766 120pF 2% 63V

| Ø. | = | |
|-------|----------------|-----------------|
| 7800 | 4822 209 | |
| 33034 | PCF84C81AP/09 | B/F2 |
| 7800 | 4822 209 30281 | PCF84C81A/097 |
| 7801 | 4822 130 61207 | BC848 |
| 7802 | 4822 130 61207 | BC848 |
| 7803▲ | 5322 130 41982 | BC848B |
| 7810 | 4822 209 72681 | MSM5165AL-12RS |
| 78114 | 5322 130 41982 | BC848B |
| 7812 | 5322 130 60159 | BC846B |
| 7820 | 4822 209 30556 | SAA5243P/E/M3/H |
| 7820 | 4822 209 63974 | SAA5243P/H |
| | | |

4822 209 32201 SAA5231/V8 4822 130 63558 BD533



Anubis-S

Service Information

Exit of the Service Default Mode:

In service manual Anubis S BB 4822 727 20262 in chapter 8 paragraph 3.3 "Exit of the Service Default Mode" the text should be adapted as follows: For both software number A and 12 via standby (so not via mains switch off)

Software number 12

In service manual Anubis S BB 4822 727 20262 in chapter 8 software number 12 for sets equipped with a PLL tuning system (e.g. for -/71/97) is not published.

Parts involved for PLL tuning: 1000 4000 010 10561

| 1000 | 4022 210 10301 | PLL tuner UV936E/P |
|------|----------------|------------------------------|
| 1015 | 4822 242 73792 | SAW filter OFWM1963M |
| 3600 | 4822 116 90878 | 8k2 X 10 |
| 3601 | 4822 116 90879 | 8k2 X 8 |
| 3602 | 4822 116 90881 | 8k2 X 6 |
| 7225 | 4822 209 33479 | TDA8361E/N3 |
| 7600 | 4822 209 33413 | P87C055BB-PNB software |
| | | number 12 (available approx. |
| | | week 9420) |

Functioning of the Service Default Mode and Service Mode of software number 12

The functioning of the Service Default Mode and the Service Mode is exactly the same as for software number A (as described in the service manual 4822 727 20262 in paragraph 4.2) except for the option settings and the hotel mode.

Option settings software number 12

- Option setting table for software number 12;
- Checksum; Add the 2 data values at the addresses 252 and 253. If necessary subtract 256 to get a checksum data under 256. This checksum data should be keyed in at the checksum address 254. If the checksum is not correct the set will use default setting.
- Changing the options in the service mode of software number 12 has to be done with the "CURSOR" and "STORE" buttons and not with the "CONTROL -/+", "CHANNEL -/+" and "0-9" buttons:

* CURSOR LEFT: * CURSOR RIGHT: * CURSOR UP:

* STORE:

Select the ADDRESS area Select the DATA area Increment of the value in the

selected area * CURSOR DOWN: Decrement of the value in the

After every ADR and/or DATA change press the "STORE" button

to store the changed values.

Only after switching off and on again the set with the mains switch the changed values will be used !!!

Both software number A and 12 automatically unprotect the EEPROM at entering the Service Mode and protect the EEPROM again at exiting the Service Mode. This is done via an automatic change of the data at address 255

For this reason the data at this address 255 should not be adapted in the Service Mode.

Hotel mode for software number 12

Hotel mode for software number 12 is activated and deactivated in the same way as for software number A. However software number 12 has only 1 hotel mode with the following features:

- Entering the INSTALL menu is not possible
- Store PP is not possible
- Maximum volume level is limited to the value present at the moment the hotel mode was

3. Spare parts list:

In service manual Anubis S BB 4822 727 20262 in chapter 10 the spare parts list for the Multisound panel, the BTSC panel and the turkish TXT decoder are not published. Also this information is published in this service

For -/62 Turkey the following codenumbers are also valid:

4822 267 51058

Scart plug (for -/62)

4822 454 12936

Ornamental plate for scart (for -/62)

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OPTION SETTING TABLE FOR SOFTWARE NUMBER 12

| Address | Option A | Value | Option B | Value | | |
|---------|--------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------|-------|--|--|
| 252 | BTSC panel not present | 0 | BTSC panel present | 128 | | |
| | Mono set | 0 | AV stereo playback | 64 | | |
| | Not used | | | 0 | | |
| | AV selection not allowed | 0 | AV selection allowed | 16 | | |
| | No trinorma set | 0 | Trinorma set | 8 | | |
| 253 | Not used | | , | 0 | | |
| | Not used | | | 0 | | |
| | Not used | | | | | |
| - | No subwoofer present | 0 Subwoofer present | | 128 | | |
| | Keys local control 0 Keys local control | | Keys local control | 64 | | |
| | Protection bit can not be saved in EEPROM | 0 | Protection bit is saved in EEPROM (so after protection occurred, the set remains in protection until entering the Service Mode) | 32 | | |
| | Spatial feature is not present | 0 | Spatial feature is present | 16 | | |
| | Multi voltage is not present | 0 | Multi voltage is present | 8 | | |
| | Sharpness feature is not present | 0 | Sharpness feature is present | 4 | | |
| | Hotel mode not allowed | 0 | Hotel mode allowed | 2 | | |
| | HUE control disabled | 0 | HUE control enabled, for NTSC only sets | 1 | | |
| 254 | Checksum Add data on address 252 and 253 and then (if no checksum is not OK the set will use default setting | ecessary) sub | otract 256 until the data has a value under 256. If | | | |

Table 8.4

| Mii | lti sound p | anel IDI | 10 | | | | €0 | | | | |
|-------------|----------------|-------------------|------|----------------|----------------|--------|----------------|------------------|----------|----------------|------------------|
| | oouna p | anci [D] | | 4822 116 52244 | | | 4822 130 40941 | | 3809 | 4822 100 11213 | 22k 30% lin 0.1W |
| Vario | 118 | | 3107 | 4822 116 52226 | | 7115 | 4822 130 40937 | | 3810 | 4822 100 11213 | 22k 30% lin 0.1W |
| | •• | | 3108 | 4822 116 52225 | | 7120 | 4822 130 40938 | | 3812 | 4822 050 21802 | 1k8 1% 0.6W |
| | 4822 212 21246 | Multisound panel | 3109 | | | | 5322 209 10421 | | i | | |
| | | | 3110 | 4822 116 52245 | 150k 5% 0.5W | 7133 | 4822 130 44196 | BC548C | 3813 | 4822 050 21301 | 130Ω 1% 0.6W |
| | 4022 203 20300 | 1 pin header 2.35 | i | | | 1 | | | 3814 | 4822 116 52256 | 2k2 5% 0.5W |
| | 1000 005 10101 | mm | | 4822 116 52273 | | 1 | | | 3815 | 4822 116 52226 | 560Ω 5% 0.5W |
| | | 6 pins male WTB | 3112 | 4822 052 10129 | 12Ω 5% 0.33W | RT | SC panel [| 1 1 | 3818 | 4822 050 11002 | 1k 1% 0.4W |
| | | 4 pins male WTB | 3114 | 4822 116 52233 | 10k 5% 0.5W | 10 | o panei [| -) | 3824 | | 10k 5% 0.5W |
| | 4822 266 302/6 | 4 pins female BTB | 3115 | 4822 116 52256 | 2k2 5% 0.5W | | | | 3825 | 4822 116 52233 | 10k 5% 0.5W |
| | | (AU) | 3116 | 4822 116 52283 | 4k7 5% 0.5W | Vario | J S | | 3826 | 4822 050 28202 | 8k2 1% 0 6W |
| | 4822 265 40471 | 8 pins female BTB | 3117 | 4822 116 52226 | 560Ω 5% 0.5W | 1 | | | | 4822 050 21601 | |
| | | (AU) | 3118 | 4822 116 52292 | 560k 5% 0.5W | 1 | 4822 212 31454 | | | | 10k 30% lin 0.1W |
| | 4822 242 72547 | | 3120 | 4822 116 52269 | 3k3 5% 0.5W | 1 | 4822 290 40295 | 7 pins male WTB | 3829 | | |
| | 4822 242 71713 | | 3150 | 4822 116 52215 | 220Ω 5% 0.5W | | 4822 265 40818 | 8 pins male WTB | 1 | | |
| 1103 | | | 3151 | 4822 116 52224 | 470Ω 5% 0.5W | l | | | 3830 | 4822 116 52257 | 22k 5% 0 5W |
| 1104 | 4822 242 71725 | 4.5MHz | l | | | -IF | | | | 4822 116 52175 | |
| | | | 3152 | 4822 116 52219 | 330Ω 5% 0.5W | l " | | | | 4822 116 52175 | |
| 4 | | | 3152 | 4822 116 52224 | 470Ω 5% 0.5W | 2801 | 4822 124 40248 | 10uF 20% 63V | 1 00,, | 4022 110 32173 | 1002 3 6 0.311 |
| | | | | 4822 116 52219 | | | 4822 121 51252 | | l | | |
| 2105 | 4822 122 33293 | 100pF 5% 50V | | 4822 116 52226 | | | 5322 121 42386 | | → | | |
| 2106 | 5322 122 32491 | 1nF 20% 100V | | 4822 116 52291 | | | 4822 124 40248 | | | | |
| 2107 | 4822 124 40242 | 1µF 20% 63V | | 4822 116 52244 | | | 4822 121 42408 | | | 4822 130 34233 | |
| 2108 | 4822 121 43714 | 820nF 5% 50V | | 4822 116 52245 | | | 4822 124 40242 | | | 4822 130 30621 | |
| 2108 | 4822 121 51438 | 820nF 10% 63V | 1 | 1022 110 02210 | 130h 3 4 0.311 | | 4822 124 40242 | | 6803 | | |
| 2111 | 4822 121 51231 | 820pF 1% 400V | = | | | | 4822 121 43526 | | 8804 | 4822 130 31981 | BZX79-C3V9 |
| 2111 | 4822 126 13173 | 820pF 5% DC 50V | | | | | 4822 124 40248 | | - | | |
| 2112 | 4822 126 12788 | 33pF 5% 50V | 5105 | 4822 157 71039 | 100U | | 4822 124 40248 | | | -€0 | |
| 2114 | 5322 122 32491 | 1nF 20% 100V | | 4822 157 71113 | | | 1022 124 10210 | 10µ1 20 4 05 4 | | - | |
| 2115 | 5322 122 32491 | 1nF 20% 100V | 3100 | 4022 157 71113 | 10μπ 10% | 2811 | 4822 124 40246 | 4 7E 200/ 02V | | 4822 209 30946 | |
| | | | | | | | 4822 124 40246 | | 7814 | 4822 130 40948 | BC548A |
| 2116 | 5322 122 32491 | 1nF 20% 100V | →+ | | | | 4822 121 42408 | | į. | | |
| 2117 | 5322 122 32491 | | | | | | 4822 124 40242 | | ĺ | | |
| | 4822 126 12643 | | | 4822 130 30621 | | | 4822 124 40248 | | TX | panel [N] | |
| | 4822 124 40248 | | | 4822 130 30621 | | | 4822 124 41643 | | | , pa [] | |
| | 4822 126 12643 | | | | 1N4148 | | 4822 121 41856 | | | | |
| | 5322 122 32311 | | | 4822 130 30621 | | | 4822 124 41643 | | Vario | u s | |
| 2154 | | | | 5322 130 80617 | | 2020 | 4022 124 41043 | 100µF 20% 16V | 1 | | |
| 2160 | 5322 122 32491 | | | 5322 130 80617 | | | | | 1 | 4822 212 31455 | ECCT TXT panel |
| | | 20.0 1001 | 6124 | 4822 130 34233 | | | | | 1 | | Turkey |
| - □- | | | | 4822 130 34379 | | 1 | | | l | | |
| | | | 6133 | 4822 130 34379 | BZX79-C27 | 3801 | 4822 116 52269 | | | -€ X | |
| 3101 | 4822 116 52269 | 3k3 5% 0 5W | l | | | | 4822 053 12569 | | | | |
| 3102 | | | _ | -€ 3 | | | | 22k 30% lin 0.1W | 7800 | 4822 209 30279 | PCF8481AP/096/ |
| | 4822 116 52289 | | | ~ | | | 4822 050 21104 | | l | | F2 for /62 |
| 3104 | | | 7111 | 4822 130 40937 | BC548B | | | 47k 30% lin 0.1W | 7820 | 4822 209 63975 | SAA5243P/T for |
| | | | | 4822 130 40938 | | | | 22k 30% lin 0.1W | l | | /62 |
| 3,03 | 4822 116 52289 | ⊃KO ⊃% U.5W | 7112 | 4822 130 40938 | DCE40 | 1 3808 | 4822 100 11213 | 22k 30% lin 0.1W | ı | | |



Anubis S

94.02

Service Information



Incredible stereo

In this service information the Incredible stereo panel and all other related modifications are published (the incredible stereo panel is the same for both Anubis S BB and CC).

In the Anubis S BB (english 4822 727 20262, spanish 4822 727 20281; 21-25* Anubis S stereo) the incredible stereo feature will be added and indicated with the typenumbers -/xxT (for the future 29* this will be -/xxR). For the Anubis S BB the slightly adapted Multisound panel (diagram D) and the slightly adapted CCS + I/O + Amplification panel (diagram H and a part of diagram J) are published in this service information.

In the Anubis S CC (english 4822 727 20288, spanish 4822 727 20289; 14-20-21* Anubis S with Interface + Amplifter panel) this incredible stereo feature can also be introduced in future. For the Anubis S CC the Interfacing + Amplification panel (diagram I) and the Multisound panel (diagram D) are already prepared for incredible stereo, so they are not published in this service information.

1. Software number A+

Anubis S BB and CC sets with production code SV03 are foreseen with a μ C with software number *A+* (sets with production code SV02 and thus with a μ C with software number *A* will remain in production in parallel).

Microprocessor IC7600 (diagram C) software number "A+" version 0.9 (ANUBIS-SAPHV 0.9 in the Service Mode and CTV110SAPHV 0.9 printed on the μC): PCA84C844P/163: 4822 209 33773

Software number "A+" has the following extra features in comparison with software number A:

* Incredible stereo

For selection of the incredible stereo feature, first press the I-II button to select stereo or NICAM and then press the SPATIAL button to switch on/off incredible stereo.

* TDSD2 NICAM via SAA7282:

This software can handle both the present SAA7280 NICAM (single system) decoder and the future SAA7282 (both single system NICAM and the so called BINICAM systems BG and I). At the introduction of this SAA7282 this will be published via a separate service information.

* New hotel mode:

Extra features of hotel mode 1 of software number "A+" in comparison with hotel mode 1 of software number "A":

- Switching "on" the set from stand-by using the PROGRAM +/- buttons will select the last viewed program number.
- When the preset maximum volume level for hotel mode is reached, the volume menu OSD will not increase any further.

Extra feature of hotel mode 2 of software number "A+" in comparison with hotel mode 2 of software number "A":

 At program numbers 30..49 in "radio mode" via OSD the word "AUDIO" will be displayed.

* Checksum:

Via one of the options at address 245 (with values 0 and 4) it is determined whether the checksum area should be calculated over the addresses 245 up to and included 253 or over the addresses 239 up to and included 253 (the protected area in the EEPROM will be adapted accordingly, so either 245..253 or 239..253).

Checksum calculation is done in the same way as for software number "A" (see service manual Anubis S BB chapter 8).

2. Software number 12

Anubis S BB and CC sets with production code SV03 and higher with software number 12 are foreseen with a μ C with the incredible stereo feature.

- For Anubis S BB IC7600 (diagram C) software number 12 version 2.8 (ANUBIS-S12HV 2.8): P83C055-CV6108NB; 4822 209 33622
- For Anubis S CC IC7600 (diagram C) software number 12 version 2.9 (ANUBIS-S12HV 2.9): (this software version has a demo mode with AV-IN only)

P83C055-CV6118NB; 4822 209 52596 Selection of the incredible stereo feature can be done in 2 ways:

- Direct via the SPATIAL button on the remote (toggle function incredible stereo/spatial effect on and off.
- Indirect via the SOUND-MENU via control left/right.

3. Control and muting

- * Control for Anubis S BB
 - Shift register (output expander) HEF4094 For Anubis S BB an (extra) shift register IC7827 (HEF4094; diagram H) is applied only in case

incredible stereo is used.

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The following shift register configuration are possible:

- 1 shift register HEF4094 (IC7132) on the Multisound panel.
- 1 shift register HEF4094 (IC7827) on the 2CS+I/O+Ampl panel.
- 2 shift registers HEF4094 (IC7132 and IC7827) in cascade (note the configuration table address 244 for software number "12". In case of 2 shift registers luming 9144 is present.

In case of 2 shift registers jumper 9144 is present and 9143 and CUT1 on the Multisound panel are not present (diagram D). As a result the Os' at pin 10 IC7827 (diagram H) shifts through the data (16 bits i.s.o. 8 bits as there are 2 shift registers in cascade) to SDA pin 2 of IC7132 via connector 5A8A (diagram J) to connector 3C8A and Jumper 9144 (diagram D).

Incredible stereo control in Anubis S BB
Switching on/off the incredible stereo feature is done
via pin 6 IC7827 (HEF4094) on diagram H. Via
connector A7A (diagram H) to connector A7 and 3A9
(diagram J) to 319 and the signal line "INC-SWITCH"
on the incredible sound panel.

This "INC-SWITCH" signal line selects via IC7400 (HEF4053) between L and R audio signals with and without incredible stereo effect (INC-SWITCH "high" is incredible stereo feature "on", if "low" then "off").

* Control for Anubis S CC

- Shift register (output expander) HEF4094 For Anubis S CC an (extra) shift register IC7290 (HEF4094; diagram I of the Anubis S CC service manual) is reserved.
- 1 shift register HEF4094 (IC7132) on the Multisound panel.
- 1 shift register HEF4094 (IC7920) on the Interfacing + Amplification panel.
- 2 shift registers in cascade (combination of IC7132 and IC7290).

Incredible stereo control in Anubis S CC
Provisions to switch on/off the incredible stereo panel
by IC7290 on the Interfacing + Amplification panel
(diagram I) are not yet foreseen.

Muting for Anubis S BB

- a. For sets with incredible stereo, so IC7827 present (with and without multisound panel)
 In case of a set with incredible stereo IC7827 on the 2CS+I/O+Ampl panel is present (diagram H). Muting is done via pin 4 IC7827.
 - * EM_MONO mute: In case the μC (via SOUND_ID or SAP_AVAIL or NICAM_AVAIL) knows that the Multisound or NICAM or BTSC decoder have not found a correct signal, pin 4 IC7827 becomes "low". TS7828 and so TS7829 conduct. Herewith the FM_MONO signal and the NICAM or BTSC signal will be muted.
- AV_OUT mute: In case the AV-OUT cinches are present, AV-OUT muting also takes place via pin 4 IC7827. At muting pin 4 IC7827 is "low", FM_MONO will be muted and as a result AV_OUT will be muted (AV_OUT will not be muted by TS7830, A5A and A6A, as these components are not present for sets with IC7827).
- b. For sets without incredible stereo (IC7827 not present) + with multisound panel

not mounted. Jumper 9143 and CUT1 on the Multisound panel are present, jumper 9144 is not present (diagram D).

- FM_MONO mute; FM-MONO is not muted as C2823 is not present for a set without IC7827.
- AV_OUT_mute; Muting is done via the SOUND_ID

signal from the Multisound panel (diagram D). Via jumper 9143, 3C8A (diagram D), 5A8A (diagram J), via Os' and jumper 9827 and 9828 (diagram H). In case the Multiound panel does not detect a correct sound system, the SOUND ID will be "low" (diagram D). By then TS7828 is driven into conduction and so TS7829 and TS7830 are conducting. Connector A5A (diagram H) is connected to A5 (diagram I of the Anubis S BB service manual) which is directly connected to the L MONITOR output cinch. Connector A6A (diagram H) is connected to A6 (diagram I) which is directly connected to the R MONITOR output cinch. As a result in case of muting the L MONITOR and R MONITOR are shorted by TS7829 and TS7830.

c. For sets without incredible stereo (IC7827 not present) + without multisound panel In this case muting of AV_OUT on the 2CS+I/O+Ampl panel is not needed as there is no "noise" coming from the Multisound panel.

Muting for Anubis S CC

For sets with Multisound panel (mono and stereo versions) muting is described in the service manual of Anubis S CC (diagram I page 13)

4. Incredible stereo/sound

For stereo in television sets in general the loudspeakers are too close to each other for a good stereo effect. Some television sets make use of a spatial effect, which measures the difference between left and right and amplifies the stereo effect before giving the signals to the left and right speakers. Although it gives some improvement it is not the real widening of stereo as if the loudspeakers are more separated. For the Anubis S BB the sound system has been extended with an "electronic" stereo widening system. With aid of his two ears a listener can detect where the sound is coming from. If e.g. the loudspeakers are more separated, than the angle between the boxes and the listener will be different and with this the phase and amplitude of both left and right sound signals to both ears. Via mathematic calculations of the phase relations from boxes to ears. frequency depending phase and amplitude can be determined for influencing the stereo effect. The implemented "electronic" stereo widening system of the Anubis S BB will give the listener an experience of this "Incredible Stereo" as if the loudspeakers are really separated in line with the original transmitted stereo recording.

Realisation in the Anubis S BB and CC
The left signal L-IN is fed to a low-pass passive filter by
R3206, C2202 and R3207, R3208, C2203, R3210 and R3209.
This filter influences the phase characteristic from 500Hz to
15kHz and gives an amplitude variation rolling off at 1kHz.
The right signal R-IN is fed to an active phase-shift filter
(starting at 500Hz) by IC7200-4A, R3201, R3200, C2200 and
R3202, C2201. This filter influences the frequency and
amplitude characteristic.

The output of these 2 filters are added via input pins 9 and 10 of IC7200-4B. Finally IC7300-2A amplifies the signal to compensate the level. The adapted left signal is fed to the left amplifier.

Similar the right signal is adapted: passive R-IN low pass filter, active L-IN phase-shifting (IC7200-4C), mixing (IC7400-4D) and amplitude correction (IC7300-2B). The "Incredible Stereo" signals or the standard signals can be selected. If "INC-SWITCH" is "high":, TS7001 will conduct and IC7400 (HEF4053) will select "Incredible stereo". If "INC-SWITCH" is "low", the standard signals are selected. IC7200-4B-4D will get the DC bias (7V) at pin 10 and 3 from R3501 and R3502.



Estéreo Increíble

En la presente información de servicio aparecen publicados el panel de estéreo increble con todas sus modificaciones relacionadas (el panel de estéreo increíble para el Anubis S BB es el mismo que para el Anubis CC).

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Al Anubis S BB (inglés 4822 727 20262, español 4822 8727 20281; 21-25* Anubis S estéreo) se añadirá la función de estéreo increíble y será indicada con los números de tipo -/xxT (para el futuro 29* el número será -/xxR). Para el Anubis S BB el ligeramente cambiado panel Multisound (esquema D) y el ligeramente cambiado 2CS +I/O + panel de amplificación (esquema H y parte del esquema J) están incluidos en la presente información de servicio.

En el Anubis S CC (inglés 4822 727 20288, español 4822 727 20289; 14-20-21* Anubis S con panel de Interfaz y de amplificación) se puede introducir esta función de estéreo increible también en el futuro. Para el Anubis S CC el panel de interfaz y de amplificación (esquema I) y el panel de Multisound (esquema D) están preparados ya para estéreo increible, por consiguiente, no aparecen publicados en la presente información de servicio.

1. Número de software A+

Los aparatos Anubis S BB y CC con el código de producción SV03 están dotados de un μ C con el número de software "A+" (aparatos con el código de producción SV02 y, por lo tanto, con un μ C con el número de software "A" permanecerán en producción en paralelo).

El microprocesador IC7600 (esquema C) con el número de software "A+", versión 0.9 (ANUBIS-SAPHV 0.9 en el Modo de Servicio y CTV110SAPHV 0.9 impreso en el µC): PCA84C844P/163: 4822 209 33773

El número de software "A+" tiene las siguientes extra funciones que no tiene el número de software A:

* Estéreo increíble

Para seleccionar la función de estéreo increíble, pulse primero el botón I-II para seleccionar estéreo o NICAM y pulse el botón SPATIAL para activar/desactivar el estéreo increíble.

TDSD2 NICAM a través de SAA7282: Este software puede manejar el decodificador presente SAA7280 NICAM (sistema sencillo) y el decodificador futuro SAA7282 (tanto el sistema sencillo NICAM y los llamados sistemas BINICAM BG y I). Con la introducción de este SAA7282 se publicará una separada información de servicio.

* Nuevo modo hotel:

Extra funciones del modo hotel 1 del número de software "A+" y que no tiene el modo hotel 1 del número de software "A":

- Cuando se enciende el aparato desde la posición de espera pulsando los botones PROGRAM +/-, aparecerá el último número de programa que se hava estado mirando.
- Cuando se haya alcanzado el nivel máximo del volumen que se haya preajustado para el modo hotel, el OSD del menú del volumen no aumentará más.

Una función extra del modo hotel 2 del número de software "A+" en comparación con el modo de hotel 2 del número de software "A":

 CON IOS NÚMBIOS de programa 30..49 en el "radio mode" a través de OSD se visualizará la palabra "AUDIO".

Suma de control:

A través de una de las opciones en la dirección 245 (con

los valores 0 y 4) se determina si se debe calcular la área de la suma de control sobre las direcciones 245 hasta 253, ambas inclusive o sobre las direcciones 239 hasta 253, ambas inclusive (la área protegida en la EEPROM será adaptada conformemente, por lo tanto. 245.253 o 239.253).

El cálculo de la suma de control se realiza del mismo modo que para el número de software "A" (véase el manual de servicio Anubis S BB, capítulo 8).

2. Número de software 12

Los aparatos Anubis S BB y CC con el código de producción SV03 y códigos siguientes con el número de software 12 están dotados de un uC con la función de estéreo increible.

- Para el Anubis S BB IV7600 (esquema C) número de software 12, versión 2.8 (ANUBIS-S12HV 2.8): P83C055-CV61081NB: 4822 209 33622
- Para el Anubis S CC IC7600 (esquema C) número de software 12, versión 2.9 (ANUBIS-S12HV 2.9); (esta versión de software posee un modo demo con solamente AV-IN)

P83C055-CV6118NB; 4822 209 52596

La selección de la función estéreo increíble se puede hacer de dos maneres:

- Directamente a través del botón SPATIAL en el mando a distancia (función basculante estéreo increible/efecto espacial activado y desactivado
- Indirectamente a través del MENU DE SONIDO mediante el mando izquierdo y derecho.

3. Control y supresión

- * Control para el Anubis S BB
 - Registro de desplazamiento (expansor de salida) HEF4094;

Para el Anubis S BB se ha aplicado solamente un registro de desfasamiento (extra) IC7827 (HEF4094; esquema H) cuando se usa estéreo increible. Las siguientes configuraciones del registro de desplazamiento son posibles:

- * 1 registro de desplazamiento HEF4094 (IC7132) en el panel Multisound
- 1 registro de desplazamiento HEF4094 (IC7827) en el 2CS+I/O+panel de amplificación.
- 2 registros de desplazamiento HEF4094 (IC7132 e IC7827) en cascada (observe la tabla de configuración dirección 244 para el número de software "A+" y la dirección 252 para el número de software "12").

En el caso 2 registros de desplazamiento, los saltadores 9144 y 9143 están presentes y CUT1 en el panel Multisound no está presente (esquema D). A consecuencia de ello el OS en la patilla 10 del IC7827 (esquema H) desplaza por los datos (16 bits o 8 bits si hay dos registros de desplazamiento en cascada) a SDA patilla 2 del IC7132 a través del conector 5A8A (esquema J) al conector 3C8A y saltador 9144 (esquema D)

Control de estéreo increíble en el Anubis S BB
La función estéreo increíble se activa o se desactiva
a través de la patilla 6 del IC7827 (HEF4094) en el
esquema H. A través del conector A7A (esquema H)
al conector A7 y 3A9 (esquema J) a 319 y la línea de
señal "INC-SWITCH" en el panel de sonido increíble.
Esta línea de señal "INC-SWITCH" selecciona, a
través del IC7400 (HEF4053), entre señales acústicas
L o R(izquierda o derecha) con y sin efecto de estéreo
INCIGIDIO (SI B) INC-SWITCH está en alta: "high",
entonces la función de estéreo increíble esta activada,
si está en bala:

"low", entonces está desactivada.

* Control para Anubis S CC

 Registro de desplazamiento (expansor de salida) HEF4094;

Para el Anubis S CC se ha aplicado un (extra) registro de desplazamiento IC7290 (HEF4094; esquema I del manual de servicio del Anubis S CC) está reservado

- * 1 registro de desplazamiento HEF4094 (IC7132) en el panel Multisound
- 1 registro de desplazamiento HEF4094 (IC7920) en el panel de interfaz y de amplificación.
- 2 registros de desplazamiento en cascada (una combinación de (IC7132 e IC7290).
- Control de estéreo increíble en el Anubis S CC
 Aún no se han tomado provisiones para que el IC7290
 pueda activar y desactivar el panel de estéreo increíble
 en el panel de interfaz y de amplificación (esquema I).

* Supresión para el Anubis S BB

- a. Para aparatos con estéreo increible, así que, el IC7827 está presente (con y sin el panel multisound) En caso de un aparato con estéreo increible, el IC7827 está presente en el 2CS+I/O+panel de amplificación (esquema H). La supresión se efectúa a través de la patilla 4 IC7827.
 - * Supresión FM-MONO; en el caso que el μC (a través de SOUND-ID o SAP-AVAIL o NICAM-AVAIL) detecta que el Multisound o el decodificador NICAM o BTSC no han encontrado una señal correcta, la patilla 4 del IC7827 se pone en "baja". El TS7828 y, en consecuencia, el TS7829 conducen. Debido a ello la señal FM-MONO y la señal NICAM o BTSC serán suprimidas.
 - Suprasión AV-OUT; Si los cinches AV-OUT están presentes, la supresión AV-OUT tiene también lugar a través de la patilla 4 IC7827. Al suprimir la patilla 4 del IC7827 está en "baja", FM-MONO será suprimido y a consecuencia de ello también AV-OUT será suprimido (AV-OUT no será suprimido por TS7830, A5A y A6A, ya que estos componentes no están presentes para aparatos con IC7827.

b. Para aparatos con estéreo increíble (IC7827 no presente) + con panel multisound

En los aparatos sin estéreo increíble no está montado el IC7827. El saltador 9143 y CUT1 en el panel Multisound están presentes, el saltador 9144 no está presente (esquema D).

- Supresión FM-MONO; FM-MONO no se suprime ya que C2823 no está presente en los aparatos que no tienen IC7827.
- Supresión AV OUT: La supresión se efectúa a través de la señal SOUND-ID del panel Multisound (esquema D), a través del saltador 9143, 3C8A (esquema D), 5A8A (esquema J), a través de Os v los saltadores 9827 y 9828 (esquema H). Cuando el panel Multisound no detecta un sistema de sonido correcto, el SOUND-ID estará en "baia" (esquema D). TS7823 habrá entrado en conducción y, por lo tanto, TS7829 y TS7830 conducen. El conector A5A (esquema H) está conectado con A5 (esquema I del manual de servicio del Anubis S BB) que está conectado directamente con el cinch de la salida L-MONITOR. El conector A6A (esquema H) está conectado con A6 (esquema I) el cual está conectado directamente con el cinch de salida R-MONITOR. Como consecuencia de ello, el L-MONITOR y el R-MONITOR están cortados por TS7829 y TS7830.
- c. Para aparatos sin estéreo increible (IC7827 no presente) + sin panel multisound En este caso la supresión del AV-OUT en 2CS+I/O+ panel de amplificación no está presente ya que no saleningún "ruido" del panel Multisound.

* Supresión para el Anubis S CC

Para aparatos con panel Multisound (versiones mono y estéreo) la supresión está descrita en el manual de serviclo del Anubis S CC (esquema I, página 13).

4. Sonido/estéreo increíble

Para poder escuchar bien el efecto estéreo de los aparatos de televisión, la distancia entre las altavoces suele estar demasiado corta.

Algunos aparatos de televisión hacen uso de un efecto espacial, que mide la diferencia entre el canal izquierdo y derecho y amplifica el efecto estéreo antes de transmitir las señales a los altavoces izquierdo y derecho. Aunque es una mejora, sin embargo no es realmente la ampliación de estéreo como si las altavoces estuvieran más separadas.

Para el Anubis S BB el excelente sistema acústico ha sido ampliado con un sistema "electrónico" de amplificación del estéreo.

Mediante sus dos oídos el oyente puede detectar de donde proviene el sonido. Si, por ejemplo, la distancia entre los dos altavoces fuera más grande, el ángulo entre las altavoces y el oyente sería diferente y con ello también las fases y la amplitud de las señales acústicas izquierdas y derechas a ambas oídos. Haciendo cálculos aritméticos de las relaciones de fases de los altavoces a los oídos, es posible determinar la fase y amplitud que depende de la frecuencia para influenciar en el efecto estereofónico.

El sistema "electrónico" de amplificación del estéreo introducido en el Anubis S BB da al oyente un experiencia de este "Estéreo Increíble" como si los altavoces estuvieran realmente separados de acuerdo con la grabación estereofónica originalmente transmitida.

Realización en el Anubis S BB y CC

La señal izquierda L-IN es alimentada a un filtro pasivo de paso bajo por R3206, C2202 y R3207, R3208, C2203, R3210 y R3209. Este filtro influye en la característica de fase de 500Hz a 15kHz, dando una variación de amplitud cortando a 1kHz. La señal derecha R-IN es alimentada a un filtro activo de desfasamiento (comenzando a 500Hz), por el IC 7200-4A, R3201, R3200, C2200 y R3202, C2201. Este filtro influye en la característica de la frecuencia y de la amplitud. La salida de estos 2 filtros es añadida a las patillas 9 y 10 del IC7200-4B. Finalmente, el IC7300-2A amplifica la señal para compensar el nivel. La señal izquierda adaptada es alimentada al amplificador izquierdo.

La señal derecha se adapta similarmente: R-IN pasivo filtro de paso bajo, L-IN activo desplazamiento de fase (IC7200-4C), mezclando (IC7400-4D y corrección de amplitud (IC7300-2B). Se puede seleccionar las señales "Estéreo increible" o las señales estándar. Si "INC-SWITCH" está en "alta", TS7001 conducirá y el IC7400 (HEF4053) seleccionará "Estéreo increible". Si "INC Switch" está en "ala", se seleccionan las señales estándar. El IC7200-4B-4D tomará la polarización de corriente continua (7V) en las patillas 10 y 3 de R3501 y R3502.

Option setting table for software number "A+" (so "A+"!!!) and IC(only for VST sets)

| Address | Option A | Value | Option B | Valu |
|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 239*) | Maximum error limit values for the SAA7282 (TDSD2) | | , | 80 |
| 240 ^{*)} | Minimum error limit values for the SAA7282 (TDSD2) | | | 20 |
| 241 ^{*)} | Not used | | | 255 |
| 242 ^{*)} | Not used | | | 255 |
| 243 ^{*)} | Not used | - Water Committee Committe | | 255 |
| 244 ^{*)} | Not used | | | 0 |
| | Not used | | | 0 |
| | Not used | | | 0 |
| | Remote STORE key allowed | 0 | Remote STORE key not allowed | 16 |
| | If no Anubis S CC sets or Anubis S CC set without Multisound panel | 0 | For Anubis S CC sets with Multisound panel (muting and spatial via IC7132) | 8 |
| | Set with no HEF4094 or only one HEF4094 shift register - for Anubis S BB either IC7132 or IC7827 (only one) - for Anubis S CC either IC7132 or IC7827 (only one) | 0 | Set with two HEF4094 shift registers - for Anubis S BB IC7132 and IC7827 present (both) - for Anubis S CC IC7132 and IC7290 present (both) | 4 |
| | Incredible stereo panel present | 0 | Incredible stereo panel not present | 2 |
| | SAA7282 (TDSD2) used as single system | 0 | SAA7282 (TDSD2) used as dual system (BINICAM) | 1 |
| 239*) Ma 240*) Mir 241*) No 242*) No 243*) No 244*) No No No No Re If n Mu Ser - fc - fc Inc SA 245 2C AV No | 2CS stereo decoder (IC7800) present | 0 | 2CS stereo decoder (IC7800) not present | 128 |
| | AV stereo playback present | 0 | AV uses mono only | 64 |
| İ | No AV selectable | 0 | AV present | 32 |
| | No spatial sound possible | 0 | Spatial sound selectable | 16 |
| | No hue control possible | 0 | Hue control possible | 8 |
| | Checksum area to be calculated from address 245 up to and included 253 (also protected EEPROM area by then from 245 up to and included 253) | 0 | Checksum area to be calculated from address 239 up to and included 253 (also protected EEPROM area by then from 239 up to and included 253) ") | 4 |
| | NICAM uses SAA7282 (TDSD2) | 0 | NICAM uses TDA7280 (TDSD1) | 2 |
| | UV973 tuner is used (bandswitch signals for VHF1 and VHF3 are swapped | 0 | "Normal" bandswitch signals | 1 |
| 246 | No hotel mode possible | 0 | Hotel mode can be enabled | 128 |
| | No UHF tuning possible | 0 . | UHF band allowed | 64 |
| | No VHF3 tuning possible . | 0 | VHF3 band allowed | 32 |
| | No VHF1 tuning possible | 0 | VHF1 band allowed | 16 |
| | Not used | | | 0 |
| | Multisound panel not present (no sound standard selection) | 0 | Multisound panel present (auto, M, B/G, I, D/K sound selection possible) | 4 |
| | Not used | | | 0 |
| | No colour system selection | 0 | Auto, SECAM, PAL(/NTSC) | 1 |
| 247 | NICAM panel not present, multisound panel not present | | | 40 |
| | NICAM panel not present, multisound panel present | | | 41 |
| | NICAM panel present, multisound panel not present | | | 168 |
| | NICAM panel present, multisound panel present | | | 169 |
| 248 | UV 913 / UV 973 (VST) | | | 191 |
| | UV 915 (VST) | | | 42 |
| | UV 953 (VST) | | | 162 |
| 249 | UV 913 / UV 953 / UV 973 (VST) | | | 93 |
| | UV 915 (VST) | | | 73 |
| 250 | UV 913 / UV 953 / UV 973 (VST) | | | 25 |
| Ī | UV 915 (VST)0251UV 913 / UV 953 / UV 973 (VST) | | | 134 |
| | UV 915 (VST) | | | 129 |
| 252 | All VST tuners | | | 0 |
| 253 | UV 913 / UV 915 / UV 973 (VST) | | | 224 |
| | UV 953 (VST) | | | 225 |
| 254 | Checksum (see for calculation of the checksum service mar Add data from addresses 245 up to and included 253 or add Then (if necessary) subtract 256 until the data has a value of | dresses 239 | up to and included 253*). | |



Option setting table for software number 12 (only for PLL sets)

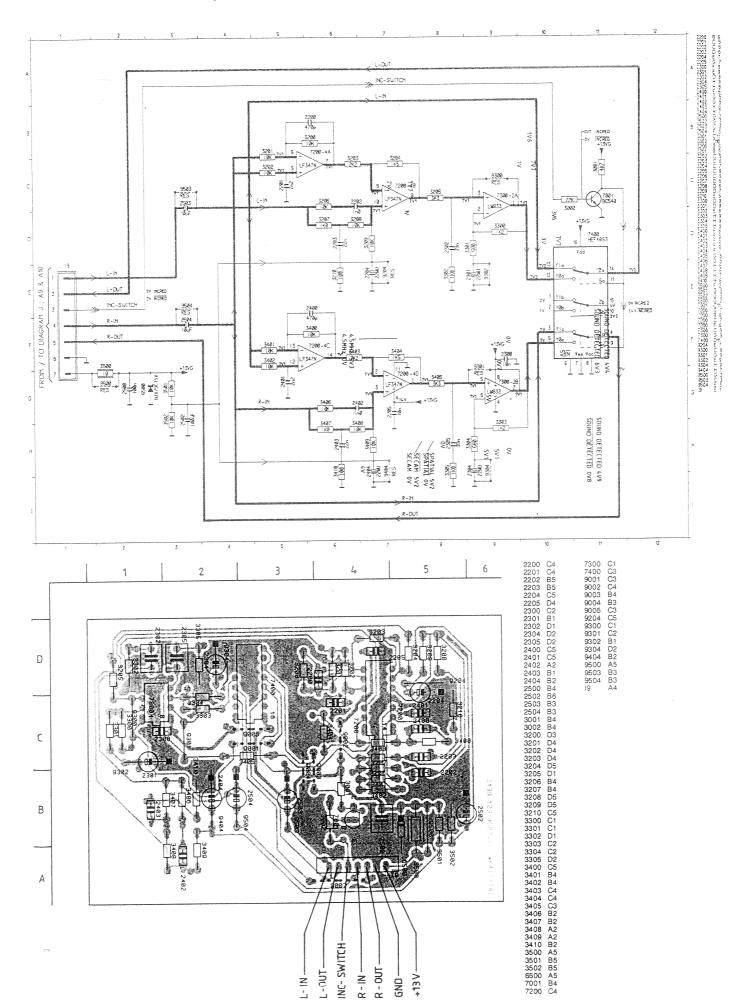
| Address | Option A | Value | Option B | Value |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------|
| 252 | BTSC panel not present | 0 | BTSC panel present | 128 |
| | Mono set | 0 | AV stereo playback | 64 |
| | No HEF4094 present - for Anubis S BB IC7827 not present - for Anubis S CC IC7290 not present | 0 | a HEF4094 shift register present - for Anubis S BB IC7827 present - for Anubis S CC IC7290 present | 32 |
| | AV selection not allowed | 0 | AV selection allowed | 16 |
| | No trinorma set | 0 | Trinorma set | 8 |
| | No incredible stereo panel present | 0 | Incredible stereo panel present | 4 |
| | Not used | | | 0 |
| | Not used | | | 0 |
| 253 | No subwoofer present | subwoofer present 0 Subwoofer present | | 128 |
| | 5 keys local control | 0 | 8 keys local control | 64 |
| | Protection bit can not be saved in EEPROM | . 0 | Protection bit is saved in EEPROM (so after protection occurred, the set remains in protection until entering the Service Mode) | 32 |
| | Spatial feature is not present | 0 | Spatial feature is present | 16 |
| | Multi voltage is not present | 0 | Multi voltage is present | 8 |
| | Sharpness feature is not present | 0 | Sharpness feature is present | 4 |
| | Hotel mode not allowed | 0 | Hotel mode allowed | 2 |
| | HUE control disabled | 0 | HUE control enabled; NTSC only sets | 1 |
| 254 | Checksum (see for calculation of the checksum service Add data on address 252 and 253 and then (if necess OK the set will use default setting. | ce manual chapte sary) subtract 256 | r 8) until the data has a value under 256. If checksum is not | |



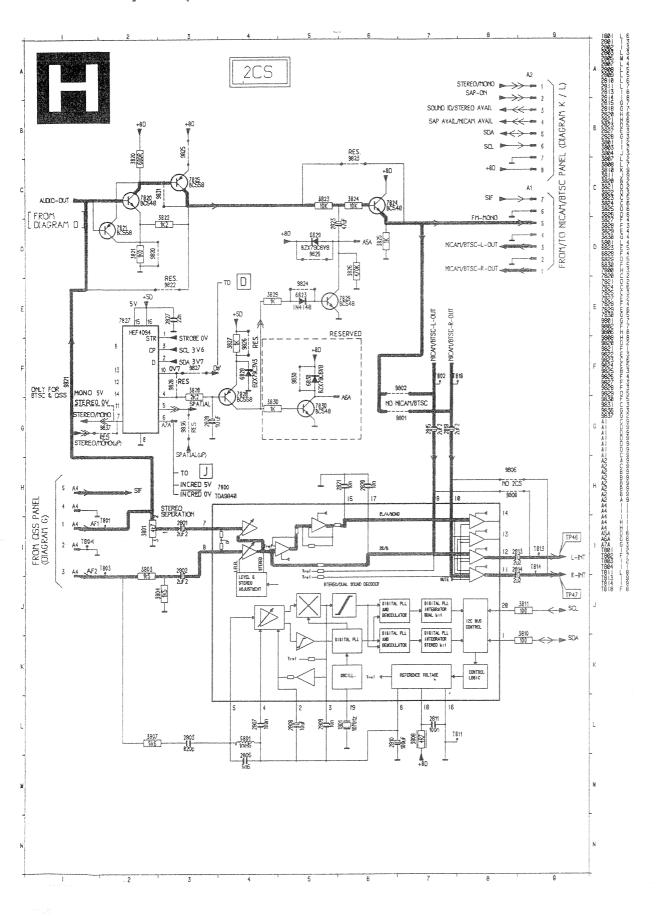
Tabla de ajuste de opciones para el número de software 12 (Solamente para aparatos PLL)

| Dirección | Opción A | Valor | Opción B | Valor | | |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--|--|
| 252 | Panel BTSC no presente | 0 | Panel BTSC presente | 128 | | |
| | Aparato mono | 0 | Reproducción AV estéreo | 64 | | |
| | HEF 4094 no presente - para anubis S BB IC7827 no presente - para Anubis S CC IC7290 no presente | 0 | Registro de desfasamiento HEF4094 presente - para Anubis S BB IC7827 presente - para Anubis S CC IC7290 presente | 32 | | |
| | Selección AV no permitido | 0 | Selección AV permitido | 16 | | |
| | No aparato norma | 0 | Aparato norma | 8 | | |
| | Panel estéreo increíble no presente | 0 | Panel estéreo increíble presente | 4 | | |
| | No usado | | | 0 | | |
| | No usado | | | | | |
| C | No 'subwoofer' (altavoz de tonos bajos) presente | 0 | 'Subwoofer' presente | 128 | | |
| | Control local 5 teclas | 0 | Control local 8 teclas | 64 | | |
| | Bit de protección no puede ser almacenado en EEPROM | 0 | Bit de protección está almacenado en EEPROM (a saber: una vez realizada la protección, el equipo permanece en protección hasta que entra en el Modo de Servicio) | 32 | | |
| | Función espacial no presente | . 0 | Función espacial presente | 16 | | |
| | Multi tensión no presente | 0 | Multi tensión presente | 8 | | |
| | Función de nitidez no presente | 0 | Función de nitidez presente | 4 | | |
| | Modo hotel no permitido | 0 | Modo hotel permitido | 2 | | |
| | Control HUE desactivado | 0 | Control HUE activado; NTSC solamente activa | 1 | | |
| 254 | Suma de control: se suman (véase para esta suma el manu luego (si fuese necesario) se resta 256 hasta que el dato te equipo utilizará los valores por omisión. | ual de servi enga un valo | cio, capítulo 8) los datos a las direcciones 252 y 253 y or inferior a 256. Si la suma de control no está correcta, el | | | |

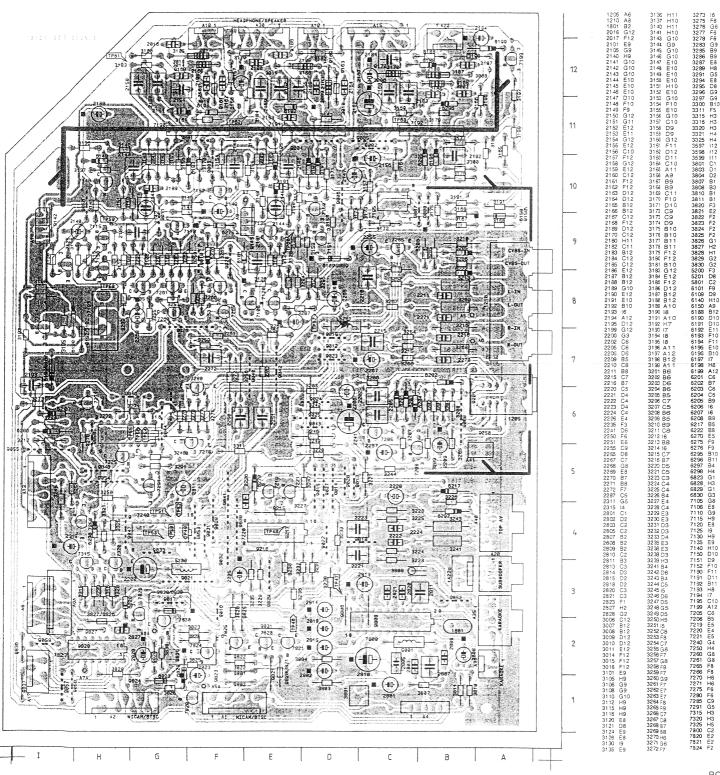
Incredible stereo panel (Anubis S BB&CC)



2 CS + I/O part (Anubis S BB)



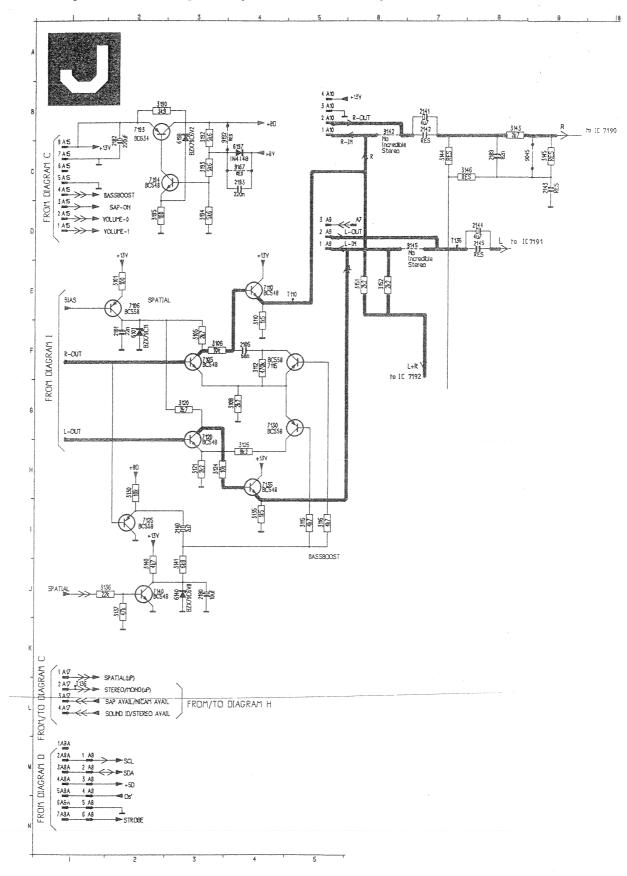
2 CS + I/O + Amplification part (Anubis S BB)



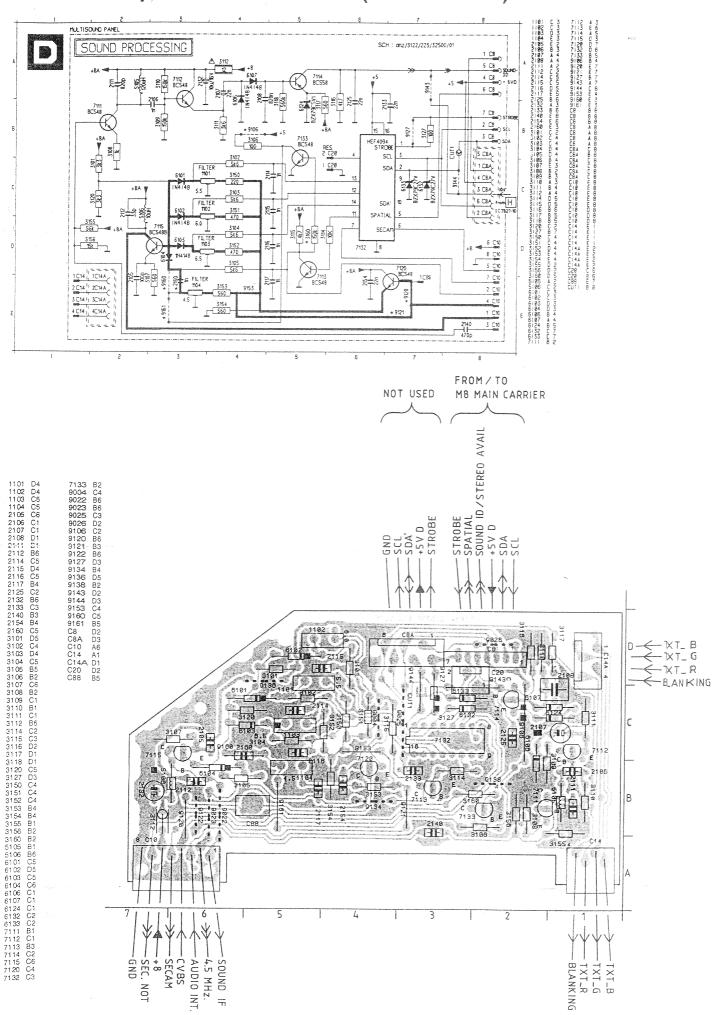
Spare parts list / Listado de Repuestos

| Microprocessors 2270 5322 122 324 | 91 1nF 20% 100V 3209 4 4822 116 52256 2k2 5% 0.5W | → | 2204 4822 124 41596 22µF 20% 50V 2205 4822 126 12642 10nF 20% 50V | 2114 5322 122 32491 1nF 20% 100V 2115 5322 122 32491 1nF 20% 100V |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2271 5322 122 3249 2287 4822 124 402 | 91 1nF 20% 100V 48 10μF 20% 63V 3210 4822 116 52201 75Ω 5% 0.5W | 6101 4822 130 34488 BZX79-C11 | 2300 4822 126 12642 10nF 20% 50V | 2116 5322 122 32491 1nF 20% 100V |
| 7600 4822 209 33773 PCA84C844P/163 2315 4822 124 808 | 48 10. F 20% 63V 3212 4822 116 52175 100Ω 5% 0.5W | 6140 4822 130 34278 BZX79-C6V8 6150 4 4822 130 30621 1N4148 | 2301 4822 124 41596 22µF 20% 50V 2302 4822 121 51256 39nF 10% 50V | 2117 5322 122 32491 11F 20% 100V 2117 5322 122 32491 1nF 20% 100V 2125 4822 126 12643 22nF 20% 50V |
| (number A+ V0.9) 7600 4822 209 33622 P83C055-CV6108 2801 4822 124 415 | 3213 4 4822 050 22702 2k7 1% 0.6W 3214 4822 116 52175 100Ω 5% 0.5W | 6190 * 4822 130 30621 1N4148 6191 4822 130 34174 BZX79-C4V7 | 2304 4822 124 41596 22µF 20% 50V | 2132 4822 124 40248 10µF 20% 63V |
| (number 12 V2.8) 2802 4822 124 415 7600 4822 209 52596 P83C055-CV6118 2803 5322 122 323 | 76 2.2µF 20% 50V 3215 4822 116 52258 220k 5% 0.5W | 6192 * 4822 130 30621 1N4148 6193 4822 130 34174 BZX79-C4V7 | 2305 4822 121 51256 39nF 10% 50V 2400 5322 122 32311 470pF 10% 100V | 2133 4822 126 12643 22nF 20% 50V 2140 5322 122 32311 470pF 10% 100V |
| (number 12 V2.9) 2805 4822 121 513 | 72 5.6nF 2% 250V 3220 4822 116 52284 47k 5% 0.5W | 6194 | 2401 4822 126 12639 2.2nF 20% 2402 5322 122 32491 1nF 20% 100V 2403 4822 126 12643 22nF 20% 50V | 2154 4822 126 12643 22nF 20% 50V 2160 5322 122 32491 1nF 20% 100V |
| 2808 4822 124 402- | 48 10μF 20% 63V 3231 4822 116 52234 100Ω 5% 0.5W | 6196 A 4822 130 30621 1N4148 | 2403 4822 126 12643 22nF 20% 50V 2404 4822 124 41596 22µF 20% 50V | |
| 2CS+I/O+Ampl panel (for 2810 4822 121 418 | 43 100uF 20% 16V 3233 4 4822 116 52233 10k 5% 0.5W | 6197 4822 130 30621 1N4148 6198 4822 130 34167 BZX79-C6V2 | 2404 7022 121 1000 221 201 201 | - |
| interfacing to incredible 2811 5322 121 423 | 86 100nF 5% 63V 3236 4822 116 52234 100Ω 5% 0.5W | 6201 4822 130 34382 BZX79-C8V2 | - | 3101 * 4822 116 52269 3k3 5% 0.5W 3102 4822 116 52289 5k6 5% 0.5W |
| stereo panel) [H/I/J] 2813 4822 124 415 | 176 2.2μF 20% 50V 3238 4822 116 52234 100Ω 5% 0.5W 3239 4 4822 116 52283 4k7 5% 0.5W | 6202 4822 130 34382 BZX79-C8V2 6203 4622 130 34382 BZX79-C8V2 | 3001 4 4822 116 52233 10k 5% 0.5W | 3103 4822 116 52289 5k6 5% 0.5W |
| 2815 4822 124 415 | 76 2.2µF 20% 50V 3242 4822 116 52276 3k9 5% 0.5W | 6204 4822 130 34382 BZX79-C8V2 6205 4822 130 34382 BZX79-C8V2 | 3002 4822 116 52257 22k 5% 0.5W 3005 4822 116 52271 33k 5% 0.5W | 3104 4822 116 52289 5k6 5% 0.5W 3105 4822 116 52289 5k6 5% 0.5W |
| Various 2820 4822 121 418 | 157 10nF 5% 250V 3245 4 4822 116 52283 4k7 5% 0.5W 3246 4822 116 52284 47k 5% 0.5W | 6206 4822 130 34382 BZX79-C8V2 6207 4822 130 34382 BZX79-C8V2 | 3100 4822 116 52291 56k 5% 0.5W 3101 4 4822 116 52256 2k2 5% 0.5W | 3106 4822 116 52244 15k 5% 0.5W 3107 4822 116 52226 560Ω 5% 0.5W |
| 4822 276 13499 1 pin 2.35 mm 50 2823 4822 124 223 | 347 15µF 50V 10% 3247 4822 116 52233 10k 5% 0.5W | 6208 4822 130 34382 BZX79-C8V2 | 3102 4 4822 116 52256 2k2 5% 0.5W 3103 4822 116 52271 33k 5% 0.5W | 3108 4822 116 52225 510Ω 5% 0.5W 3109 4822 116 52245 150k 5% 0.5W |
| 4822 265 30913 3 pins male WTB 2828 4822 124 402 | 248 10µF 20% 63V 3248 4822 050 11002 1k 1% 0.4W 3249 4822 116 52207 1k2 5% 0.5W | 6222 4822 130 34382 BZX79-C8V2 6275 4 4822 130 30621 1N4148 | 3104 4822 116 52291 56k 5% 0.5W 3106 4822 116 52291 56k 5% 0.5W | 3110 4822 116 52245 150k 5% 0.5W |
| for A20 4822 265 31193 3 pins male WTB | 32504 4822 116 52283 4k7 5% 0.5W | 6275 4822 130 30621 1N4148 6295 4822 130 34174 BZX79-C4V7 | 3107 4822 116 52271 33k 5% 0.5W | 3111 4822 116 52273 3k6 5% 0.5W 31124 4822 052 10129 12Ω 5% 0.33W |
| 4822 265 30378 4 pins male WTB | 3251 4822 116 52257 22k 5% 0.5W 3252 4822 116 52289 5k6 5% 0.5W | 6296 4 4822 130 30621 1N4148 | 3108 4822 116 52291 56k 5% 0.5W 3109 4822 116 52271 33k 5% 0.5W | 3114 4822 116 52233 10k 5% 0.5W 3115* 4822 116 52256 2k2 5% 0.5W |
| 4822 265 40421 E nins male WTB 3007 4822 050 268 | 308 6Ω8 1% 0.6W 3253 4822 116 52226 560Ω 5% 0.5W 308 6Ω8 1% 0.6W 3254 4822 116 52289 5k6 5% 0.5W | 6823 4 4822 130 30621 1N4148 | 3200 4 4822 116 52233 10k 5% 0.5W | 3116 4822 116 52283 4k7 5% 0.5W 3117 4822 116 5226 560Ω 5% 0.5W |
| 4822 265 40818 8 pins male WTB 3101 4822 116 521 3105 4 4822 116 522 | 175 100Ω 5% 0.5W 3255 4822 116 52226 560Ω 5% 0.5W 3256 4822 116 52271 33k 5% 0.5W | 6828 5322 130 31504 BZX79-C3V3 | 3201 4 4822 116 52233 10k 5% 0.5W 3202 4 4822 116 52233 10k 5% 0.5W | 3118 4822 116 52292 560k 5% 0.5W |
| 4822 267 41149 6 pole cinch block 31064 4822 116 522 | 33 10k 5% 0.5W 3257 4822 116 52284 47k 5% 0.5W | €□ | 3203 4 4822 116 52256 2k2 5% 0.5W 3204 4822 116 52243 1k5 5% 0.5W | 3120 4 4822 116 52269 3k3 5% 0.5W 3150 4 4822 116 52215 220Ω 5% 0.5W |
| cinch only 3110 4822 116 522 | 243 1k5 5% 0.5W 3258 4822 116 52289 5k6 5% 0.5W | 7105 4822 130 40938 BC548 | 3205 4 4822 116 52269 3k3 5% 0.5W 3206 4 4822 116 52233 10k 5% 0.5W | 3151 4822 116 52224 470Ω 5% 0.5W |
| cinch + SVHS 3115 4 4822 116 522 | 283 4k7 5% 0.5W 3262 4822 116 52271 33k 5% 0.5W | 7106 4822 130 40941 BC558 7110 4822 130 40938 BC548 | 3207 4822 050 11002 1k 1% 0.4W | 3152 4 4822 116 52219 330Ω 5% 0.5W 3152 4822 116 52224 470Ω 5% 0.5W |
| amplifiers | 3264 4822 116 52289 5k6 5% 0.5W | 7115 4822 130 40941 BC558 7120 4822 130 40938 BC548 | 3208 4 4822 116 52233 10k 5% 0.5W 3209 4 4822 116 52233 10k 5% 0.5W | 3153 4 4822 116 52219 330Ω 5% 0.5W 3154 4822 116 52226 560Ω 5% 0.5W |
| 1801 4522 242 80276 10.000 000 MHz 3120 4 4822 116 522 | 256 2k2 5% 0.5W 3266 4822 116 52219 330Ω 5% 0.5W | 7125 4822 130 40941 BC558 7130 4822 130 40941 BC558 | 3210 4822 116 52175 100Ω 5% 0.5W 3300 4 4822 116 52263 2k7 5% 0.5W | 3155 4822 116 52291 56k 5% 0.5W 3156 4822 116 52244 15k 5% 0.5W |
| 3124 4822 116 522 | 303 8k2 5% 0.5W 3268 ≜ 4822 050 21501 150Ω 1% 0.6W | 7135 4822 130 40938 BC548 7140 4822 130 40938 BC548 | 3301 4822 116 52228 680Ω 5% 0.5W 3302 4822 050 11002 1k 1% 0.4W | 3160 4822 116 5/245 150k 5% 0.5W |
| 3130 A 4822 116 522 2101 4822 121 41856 22nF 5% 250V 3135 4822 116 522 | 243 1k5 5% 0.5W | 7150 4822 130 40938 BC548 | 3303 4 4822 116 52263 2k7 5% 0.5W | |
| 2105 5322 121 42465 68nF 5% 63V 3136 4822 116 522 2140 4622 124 21443 2.2µF 20% 50V 3137 4822 116 522 21414 422 124 40246 4 7µF 20% 63V 3140 ⁴ 4822 116 522 | 257 22k 5% 0.5W 3270 4822 116 52234 100Ω 5% 0.5W 3271 4 4822 116 52283 4k7 5% 0.5W | 7151 4822 130 40938 BC548 | 3304 4822 116 52228 680Ω 5% 0.5W 3305 4822 050 11002 1k 1% 0.4W 3400 4 4822 116 52233 10k 5% 0.5W | 5105 4822 157 71039 120µH |
| 21414 4822 124 40246 4.7µF 20% 63V 3140 4822 116 522 21444 4822 124 40246 4.7µF 20% 63V 3141 4822 116 522 | >>> 6k8 5% n 5W {3.275 4822 050 11002 1k 1% 0.4W | 7152 4822 130 40938 BC548 7190 4822 209 32531 TDA7056A/N2 | | 5105 4822 157 71139 120µH 5106 4822 157 71113 10µH 10% |
| 2147 5322 124 41431 22µF 20% 35V 2148 4822 121 41856 22nF 5% 250V 3143 4822 116 522 | 3276 4822 116 52226 560Ω 5% 0.5W 263 2k7 5% 0.5W 3277 4822 050 11002 1k 1% 0.4W | 7191 4822 209 32531 TDA7056A/N2 7192 4822 209 32531 TDA7056A/N2 | 3401 4 4822 116 52233 10k 5% 0.5W 3402 4 4822 116 52233 10k 5% 0.5W | → |
| 2149 4822 124 40248 10µF 20% 63V 3147 4822 116 522 | P63 2k7 5% 0.5W 3278 4822 116 52226 560Ω 5% 0.5W | 7193 4822 130 63427 BD534FI 7194 4822 130 40938 BC548 | 3403 4822 116 52256 2k2 5% 0.5W 3404 4822 116 52243 1k5 5% 0.5W | |
| 2150 5322 121 42386 100nF 5% 63V 3151* 4822 116 522 2151 4822 126 12643 22nF 20% 50V 3152* 4822 116 522 | 256 2k2 5% 0.5W 3285 4822 116 52213 180Ω 5% 0.5W | 7195 4822 209 70672 LM358N 7205 4822 130 40938 BC548 | 3405 4822 116 52269 3k3 5% 0.5W 3406 4822 116 52233 10k 5% 0.5W | 6101 A 4822 130 31621 1N4148 6102 A 4822 130 31621 1N4148 |
| 2152 5322 121 42386 100nF 5% 63V 3154 4822 116 522 | | 7208 4822 130 40938 BC548 | 3407 4822 050 11002 1k 1% 0.4W 3408 4822 116 52233 10k 5% 0.5W | 6103 4 4822 130 3/621 1N4148 6104 4 4822 130 3/621 1N4148 |
| 2154 5322 121 42386 103nF 5% 63V 3156 4822 050 110 | 3289 4. 4822.116.52283 4k7.5% 0.5W 3291 4. 4822.116.52283 4k7.5% 0.5W | 7219 4 4822 130 44197 BC558B 7240 5322 209 10576 HEF4053BP | 3409 * 4822 116 52233 10k 5% 0.5W 3410 4822 116 52175 100Ω 5% 0.5W | 6106 \$ 5322 130 8/617 BAT81 6107 \$ 5322 130 8/617 BAT81 |
| 2156 5322 124 41431 22µF 20% 35V 3158 4822 116 522 | 285 470k 5% 0.5W 3294 4822 116 52291 56k 5% 0.5W 3295 4822 116 52291 33k 5% 0.5W | 7250 4822 130 40938 BC548 7260 4822 130 40938 BC548 | | 6124 4822 130 36233 BZX79-C5V1 6132 4822 130 3679 BZX79-C27 |
| | 285 470k 5% 0.5W 3296 4822 116 52291 56k 5% 0.5W | 7261 4822 130 40941 BC558 7265 4822 130 40938 BC548 | -6 (man) | 6133 4822 130 3\(\gamma\text{79}\) BZX79-C27 |
| 2161 4822 121 43526 47nF 5% 250V 3160 4822 116 522 2162 4822 121 43526 47nF 5% 250V 3161 4822 116 522 | 257 22k 5% 0.5W 3300 4822 116 52238 12k 5% 0.5W | 7266 4822 130 40941 BC558 7270 5322 209 10576 HEF4053BP | 7001 4822 130 40938 BC548 7100 5322 209 10576 HEF4053BP | © |
| 2163 4822 121 43526 47nF 5% 250V 3162 4 4822 116 522 3163 4822 116 522 | 257 22k 5% 0.5W 3315 4822 116 52175 100Ω 5% 0.5W | 7271 4822 130 40938 BC548 7275 4822 130 40938 BC548 | 7101 4822 130 40938 BC548 7102 4822 130 40938 BC548 | 7111 4822 130 4/937 BC548B |
| 2164 4822 121 43526 47nF 5% 250V 3164 4822 050 110 2166 4322 126 12643 22nF 20% 50V 3165 4 4822 116 522 | 283 4k7 5% n 5W 3318 4822 116 52226 560Ω 5% 0.5W | 7280 4822 130 40941 BC558 | 7200 4822 209 80587 LM324N 7300 4 4822 209 83163 LM833N | 7112 4822 130 4938 BC548 7113 4822 130 4938 BC548 |
| 2167 4822 124 41407 0.47µF 20% 63V 3167 4822 116 522 2168 4822 126 12639 2.2nF 20% 3168 4822 116 522 | 257 22k 5% 0.5W 3321 4822 116 52257 22k 5% 0.5W | 7285 4822 130 40938 BC548 | 7400 5322 209 10576 HEF4053BP | 7114 4822 130 4941 BC558 7115 4822 130 4937 BC548B |
| 2169 4822 126 12639 2.2nF 20% 3169 4822 116 521 | 3597 4822 116 52244 15k 5% 0.5W | 7291 4822 130 40941 BC558 7315 4822 130 40938 BC548 7320 4822 130 40938 BC548 | Multisound panel [D] | 7113 4822 130 4837 5C5465 7120 4822 130 4838 BC548 7132 5322 209 1821 HEF4094BP |
| 2182 4822 124 22263 220µF 20% 25V 3170 4822 116 522 2183 4822 122 33306 4.7nF 5% 50V 3171 4822 116 522 | 283 4k7 5% 0.5W 3597 4822 116 52277 39k 5% 0.5W | 7325 4822 130 40941 BC558 | managana paner [b] | 7133 4822 130 4196 BC548C |
| 2184 5322 121 42661 3300F 5% 63V 3172 4822 116 522 | 292 560k 5% 0.5W 3599 4 4822 116 52272 330k 5% 0.5W 292 560k 5% 0.5W 3599 4822 116 52284 47k 5% 0.5W | 7820 4822 130 40938 BC548 | Variana | |
| 3174 4822 116 522 2187 4822 126 12643 2205 20% 50V 3175 4822 116 522 | 265 270k 5% 0.5W 3801 4822 100 11319 4k7 30% lin 0.1W | 7821 4822 130 40941 BC558 7824 4822 130 40938 BC548 | Various | |
| 2189 4822 121 51379 82nF 5% 63V 3176 4622 116 522 | 249 1k8 5% 0.5W 3803 4822 116 52243 1k5 5% 0.5W | 7825 4822 130 40941 BC558 | 4822 212 31346 Multisound panel 4822 265 20366 1 pin header 2.35 | _ |
| 2191 4822 121 43823 470nF 5% 50V 3178 4822 050 110 2193 4822 121 42408 220nF 5% 63V 3179 4 4822 116 522 | 002 1k 1% 0.4W 3807 4822 116 52289 5k6 5% 0.5W 3808 4822 052 10478 4Ω7 5% 0.33W | 7827 5322 209 10421 HEF4094BP 7828 4822 130 40941 BC558 | mm 4822 265 40421 6 pins male WTB | |
| 2200 4822 124 40255 100uF 20% 63V | 3810 4822 116 52175 100Ω 5% 0.5W 271 33k 5% 0.5W 3811 4822 116 52175 100Ω 5% 0.5W | 7829 4822 130 40938 BC548 | 4822 165 30378 4 pins male WTB 4822 266 30276 4 pins female BTB | |
| 2205 4822 121 42408 220nF 5% 63V 3185 4822 050 268 | 508 6Ω6 1% 0.6W 3820 4822 050 11002 1k 1% 0.4W 3820 6Ω6 1% 0.6W 3820 4822 116 52228 660Ω 5% 0.5W | Incredible stereo panel | (AU) 4822 265 40471 B pins female BTB | |
| 2200 4822 124 40248 10 F 20% 63V 3189 4822 116 523 | 304 82k 5% 0.5W 3821 4822 050 11002 1k 1% 0.4W 276 3k9 5% 0.5W 3822 4822 116 52207 1k2 5% 0.5W | | (AU) 1101 4822 242 72547 5.5MHz | |
| 2210 4822 121 51252 470nF 5% 63V 3191 4822 116 522 | 245 150k 5% 0.5W | Various | 1102 4822 242 71713 6.0MHz 1103 4822 242 72057 6.5MHz | |
| 2215 4822 121 51252 470nF 5% 63V 3193 4822 116 522 | 289 5k6 5% 0.5W 3824 4822 116 52233 10k 5% 0.5W | 4822 264 40207 3P male WTB | 1104 4822 242 71725 4.5MHz | |
| 2216 4822 126 12519 330F 10% 3194 4822 116 522 2226 5322 122 32491 1nF 20% 100V 3195 4822 116 522 | 213 180Ω 5% 0.5W 3826 4822 116 52285 470k 5% 0.5W | 4822 265 30378 4P male WTB 1140 4822 212 31645 Incredible stereo | | |
| 2235 4822 124 40248 10µF 20% 63V 3199 4 4822 116 522 | 269 3k3 5% 0.5W 3828 4822 116 52256 2k2 5% 0.5W | panel | 2105 4822 122 33293 100pF 5% 50V | |
| 2250 4822 121 51252 470nF 5% 63V 3201 4822 116 522 2251 4822 121 51252 470nF 5% 63V 3202 4822 050 110 | 201 75Ω 5% 0.5W 3829 4822 050 11002 1k 1% 0.4W 002 1k 1% 0.4W | | 2106 5322 122 32491 1nF 20% 100V | The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s |
| 2255 4822 124 40248 10µF 20% 63V 3203 4822 116 521 | nn2 1k 1% 0.4W | 2200 5322 122 32311 470pF 10% 100V | 2108 4822 121 43714 820nF 5% 50V | |
| none 4822 124 48242 - 1209 82V 3205 4822 050 110 | 002 1k 1% 0.4W 175 1000 5% 0.5W 5200 4822 157 50964 100µH | 2200 5322 122 32311 470PF 10% 100V 2201 4822 126 12639 2.2nF 20% 2202 5322 122 32491 1nF 20% 100V | 2108 4822 121 51436 820nF 10% 63V 2111 4822 121 51231 820pF 1% 400V | |
| 2268 4322 124 40242 1µF20% 63V 3207 4822 116 522 2269 4822 124 40242 1µF20% 63V 3208 4822 116 522 | 285 470k 5% 0.5W 5201 4822 157 50964 100μH 201 75Ω 5% 0.6W 5801 4822 157 70467 1500μH | 2202 5322 122 32491 10F 20% 100V 2203 4822 126 12643 22nF 20% 50V | 2111 4822 126 13173 820pF 5% 50V 2112 4822 126 12788 33pF 5% 50V | |
| 2000 -3000 121 -300-16 1pt 20 / 001 | 1 | 1 | • | |

Amplification part (Anubis S BB)



Multisound panel / Multi sonido (Anubis S BB)





Anubis S

BB 94.03



25" Anubis S BB sets 110° picture tube (for -/93)

29" Anubis S BB (all versions)

In this service information all relevant adaptions are published for the -/93 25* Anubis S BB sets with 110° picture tube and all versions 29* Anubis S BB.

The following is published in this service information:

- Adapted PWB's for the main carrier and the mains input and power supply control panel for the 25" and the 29". Further a new PWB for the S-correction panel of the 25" 110". The spare parts list of these panels and the adapted large signal diagram (diagram AA) is published.
- Adapted PWB for the new combined CRT panel for the 25" and 29" Anubis S BB. Also the spare parts list of this adapted CRT panel
 and the adapted diagram EE is given.
- A description of the 50/60 Hz identification circuitry for the 25" 110° Anubis S BB.
- A description of the dynamic S circuitry for the 25" 110° Anubis S BB.

Description of the 50/60 Hz identification circuitry for the 25" Anubis S BB 110° picture tube.

For 110° picture tubes used in 25° -/93 a 50/60 Hz identification circuitry is required as IC7225 does not have a 50/60 Hz identification pin. This 50/60 Hz identification circuitry is used for adapting the amount of E/W correction for the different pin-cushion effect for 50/60 Hz frames.

Operation

 $\underline{\text{HORZ}}_{\text{PULSE}}$ is a 15625 Hz pulse for 50 Hz frame, or a 15750 Hz pulse for 60 Hz frame. This $\underline{\text{HORZ}}_{\text{PULSE}}$ signal is coming from pin 26 of the $\underline{\mu}\text{C}$ OSD generator.

VERT_PULSE is a 50 Hz pulse for 50 Hz frame, or a 60 Hz pulse for 60 Hz frame. This VERT_PULSE signal is coming from pin 27 of the μC OSD generator. The collector of TS7734 is "high" in case the frame starts again.

Counter IC7730 is a HEF4040BP which counts the pulses at the CP (clock input) input pin 10 and gives a pulse at output pins after 2-4-8-16-32-64 etc pulses. The counting starts again when pin 11 MR (master reset) becomes "high"

In this application the horizontal pulses at the CP input pin 10 IC7730 are counted to a quantity of 272 pulses via output pins 3 and 12 (256 + 16 = 272; 256 pulses are counted at output pin 3, and 16 pulses are counted at output pin 12). The MR is connected to the VERT_PULSE, so IC7730 starts counting again at the beginning of a new 50 or 60 Hz frame.

Dual Diffip flop IC7731 is a HEF4013BP which clocks through the data at pin D (resp. 5 and 9) to the output pins (pin 1 positive output and pin 12 negative output) at the rising edge of the clock input CP (resp. pin 3 and 11) depending on the SD (set direct) and CD (clear direct) pins:

- When the set direct (SD) pins 6 and 8 are "high", the positive output pins are "high" and the negative output pins are "low" independent from the data at pin 5 resp 9 (only as long as the CD is "low").
- In this application this feature is not used as both pins 6 and 8 are shorted.
- When the clear direct (CD) pins 4 and 10 are "high", the positive output pins are "low" and the negative output pins are "high" independent from the data at pin 5 resp 9 (only as long as SD is "low").
- In this application this feature is only used for pin 4 IC7731/2A (and not for IC7731/2B as pin 10 is shorted).
- At the moment both the SD and CD are "high", this is a conflict status. In that case both the positive and the negative output will be made "high" independent from the data at pin 5 resp 9.
- Only in case both the SD and the CD are "low", the data at the data pins 5 and 9 can be clocked through to the positive and negative
 output pins.

So in this application

- IC7731/2A is configured for clocking through the data at pin 5 to the positive output pin 1 at the rising edge of pin 3 only as long as pin 4 is "low".
- IC7731/2B is configured for clocking through the data at pin 9 to the negative output pin 12 at the rising edge of pin 11.

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At 50 Hz reception (see Fig. 1) each frame is 312.5 lines (15625 Hz for 50 frames), which is more then 272 pulses. On the moment the counter has passed 272 both output pins 3 and 12 of counter IC7730 are "high" and so TS7332 blocks. As a result the collector of TS7332 thus pin 3 IC7731/2A becomes "low". At the rising edge of pin 3 (at pulse 288), the data at pin 5 IC7332/2A (+5V) is clocked to the positive output pin 1 IC7731/2A (so making pin 1 "high") as long as pin 4 remains "low". So in case of 50 Hz reception output pin 1 is "high" from pulse 288 to the end of a frame because:

- pin 3 IC7731/2A is "low" from pulse 272 to 288, giving a rising edge at pulse 288 (pin 3 is also "low" from pulse 304 to 312 giving a rising edge at pulse 312, but this is not important as by then pin 5 is already clocked to pin 1).
- pin 4 IC7731/2A is always "low" until the voltage at pin 4 across the RC network 3734/2734 has become +5V at the end of the frame
 On the moment pin 4 becomes +5V, IC7731/2A is resetted, enabling 50/60 Hz detection for every frame again and again.

The "high" output pin 1 IC7731/2A is fed to input pin 9 IC7731/2B and is inverted clocked through to pin 12 at the rising edge of pin 11 (making output pin 12 IC7731/2B "low").

As a result pin 12 IC7731/2B becomes "low" at the end of the frame when a 50 Hz frame is detected for the first time. After that pin 12 will remain "low" until a 60 Hz frame is counted.

At 60 Hz reception each frame is 262.5 lines (15750 Hz for 60 frames), which is less then 272 pulses. In that case both output pins 3 and 12 of counter IC7730 will never become "high" any more at the same time (also not at the end of the frame). As a result TS7332 always conducts and so the collector of TS7332 thus pin 3 IC7731/2A always remains "high".

The data at pin 5 IC7731/2A (+5V) is only "flip flopped" to output pin 1 IC7731/2A in case of a rising edge at pin 3 and as long as pin 4 is "low". As pin 3 is constantly "high", there will never be a rising edge, so in case of 60 Hz reception pin 1 IC7731/2A always remain "low", so pin 12 IC7731/2B always remain "high" (also at the end of a frame).

For 50 Hz pin 12 IC7731/2B is "low", so TS7733 is not conducting. This results in a less modified E/W modulation. For 60 Hz pin 12 is always "high", so TS7733 conducts constantly, shorting R3474 in the E/W modulator. This modifies the E/W modulation by changing the current.

Description of the dynamic S circuitry for the 25" Anubis S BB 110° picture tube.

This separate panel is only needed for the 25" Anubis S BB sets with 110" picture tube. This panel is used for reducing the pin-cushion effect within the picture content (every line) (this can not be realised via the E/W modulator as these modulator takes care of the outline of each frame).

The dynamic S panel consists of the S-correction capacitor C2490 and an auto-transformer. The panel is inserted at the position and instead of jumper 9455. For every line (50 or 60 Hz) a dynamic S correction is modulated on the horizontal deflection to achieve a good linear horizontal scan.

Finally, to correct the 4 corners from bending inwards D6471 and 6473 with R3471 and 3473 are added (only for 25* Anubis S BB 110° picture tube). This circuit is called the higher order S-correction circuitry.

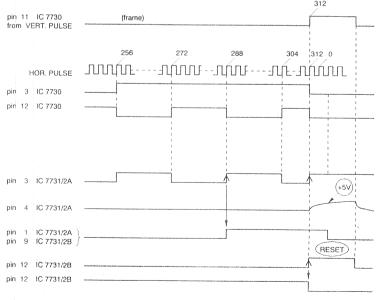
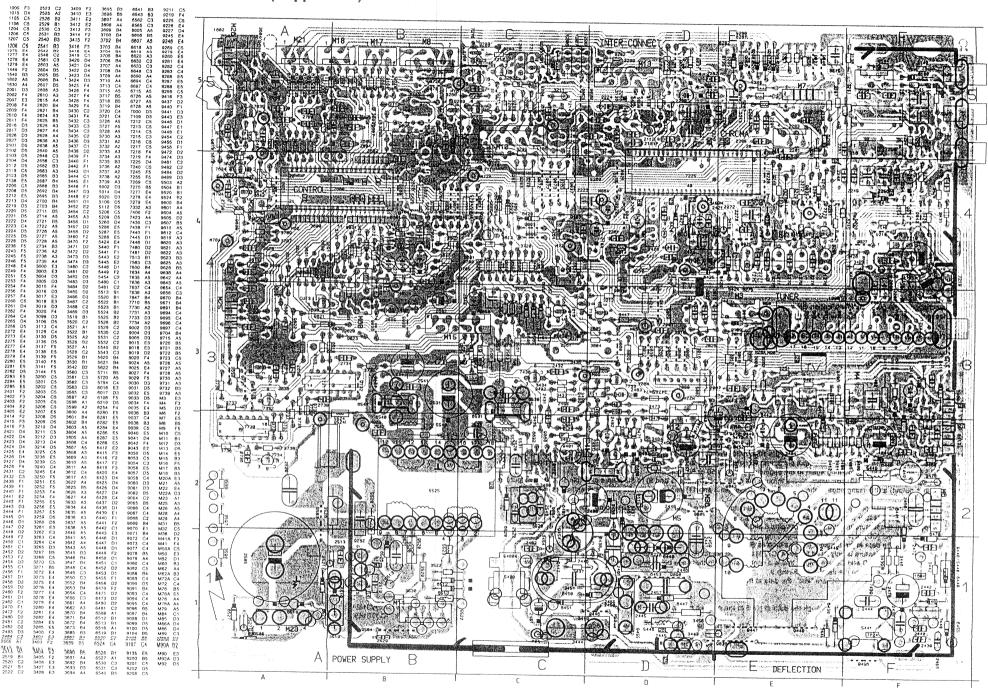
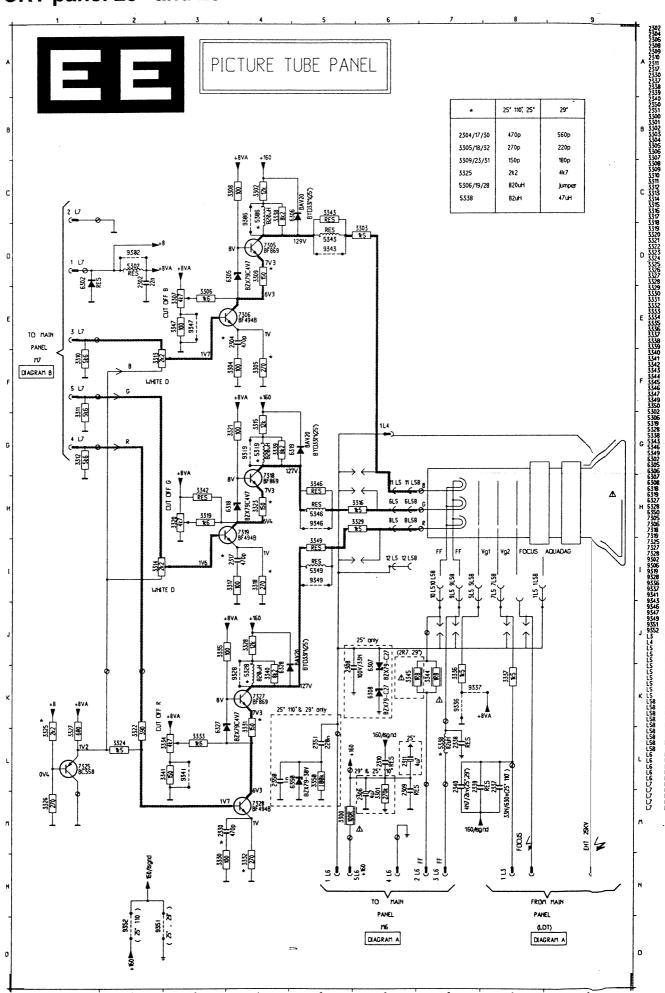


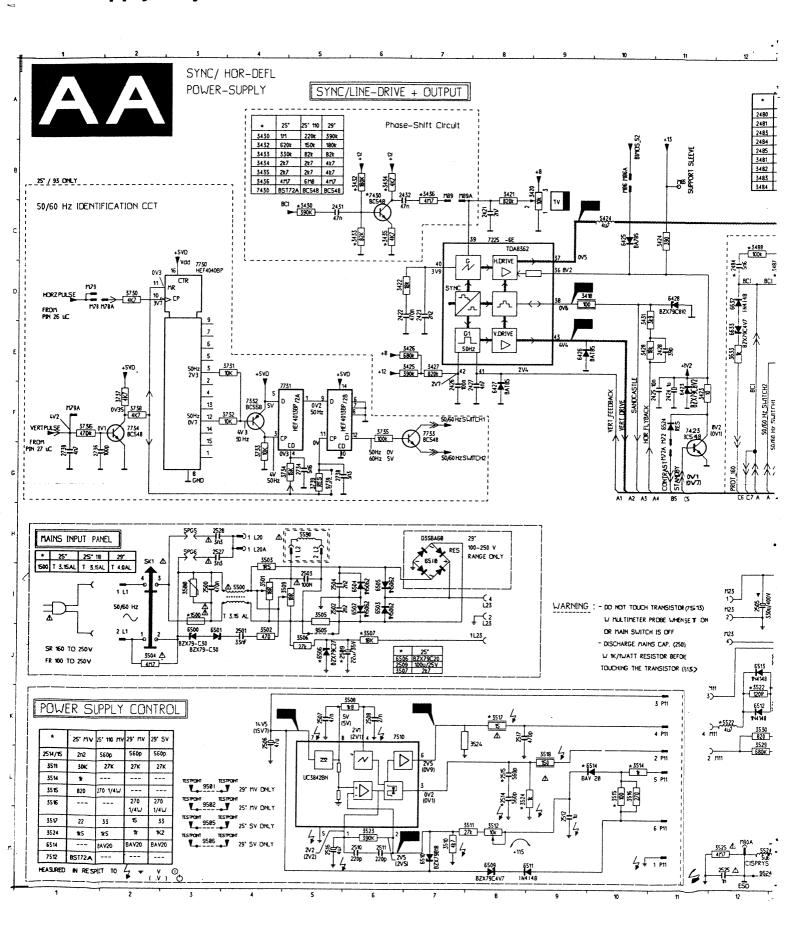
Fig. 1 Figures at 1st time 50Hz detection

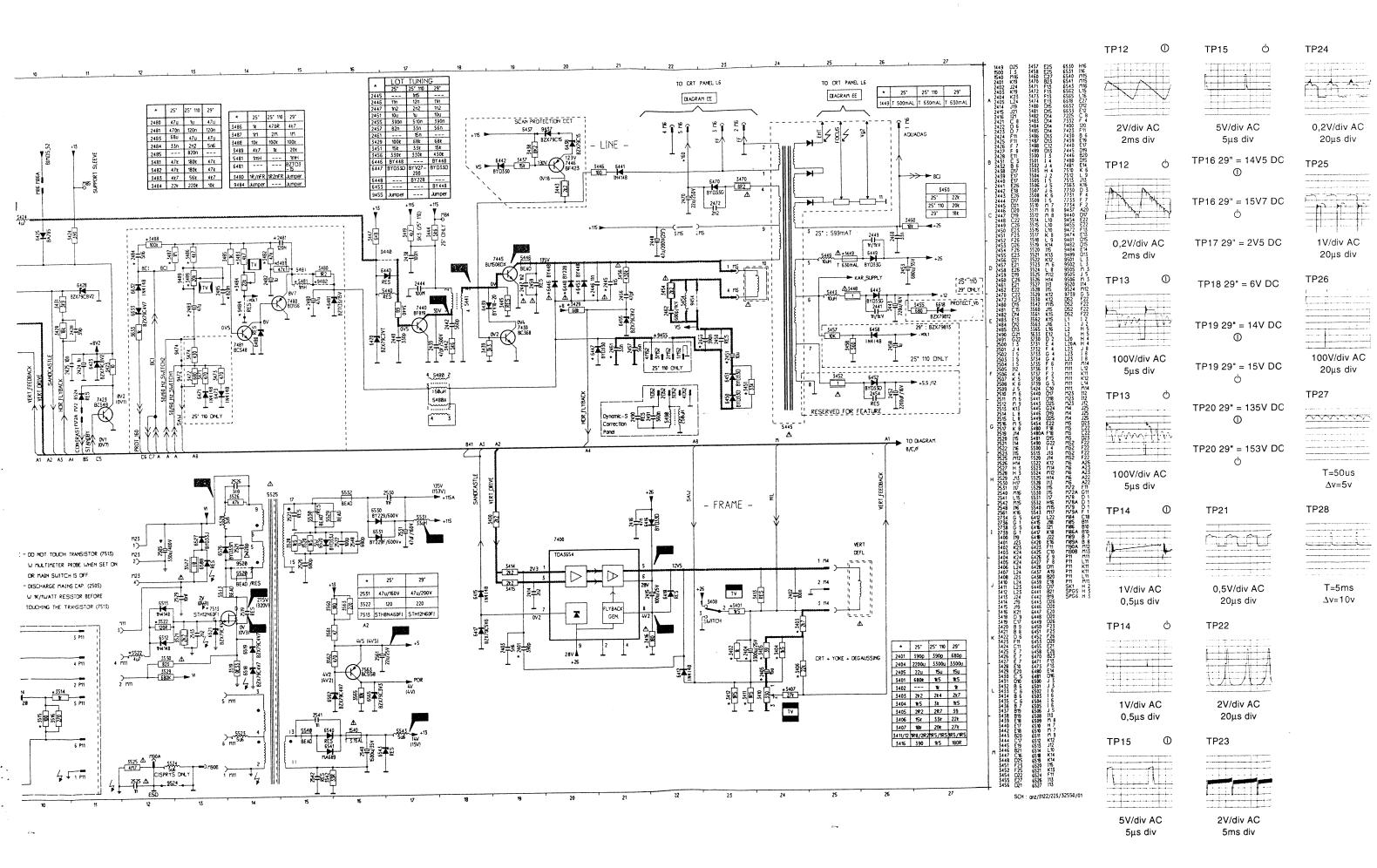
Ct 46532066/015

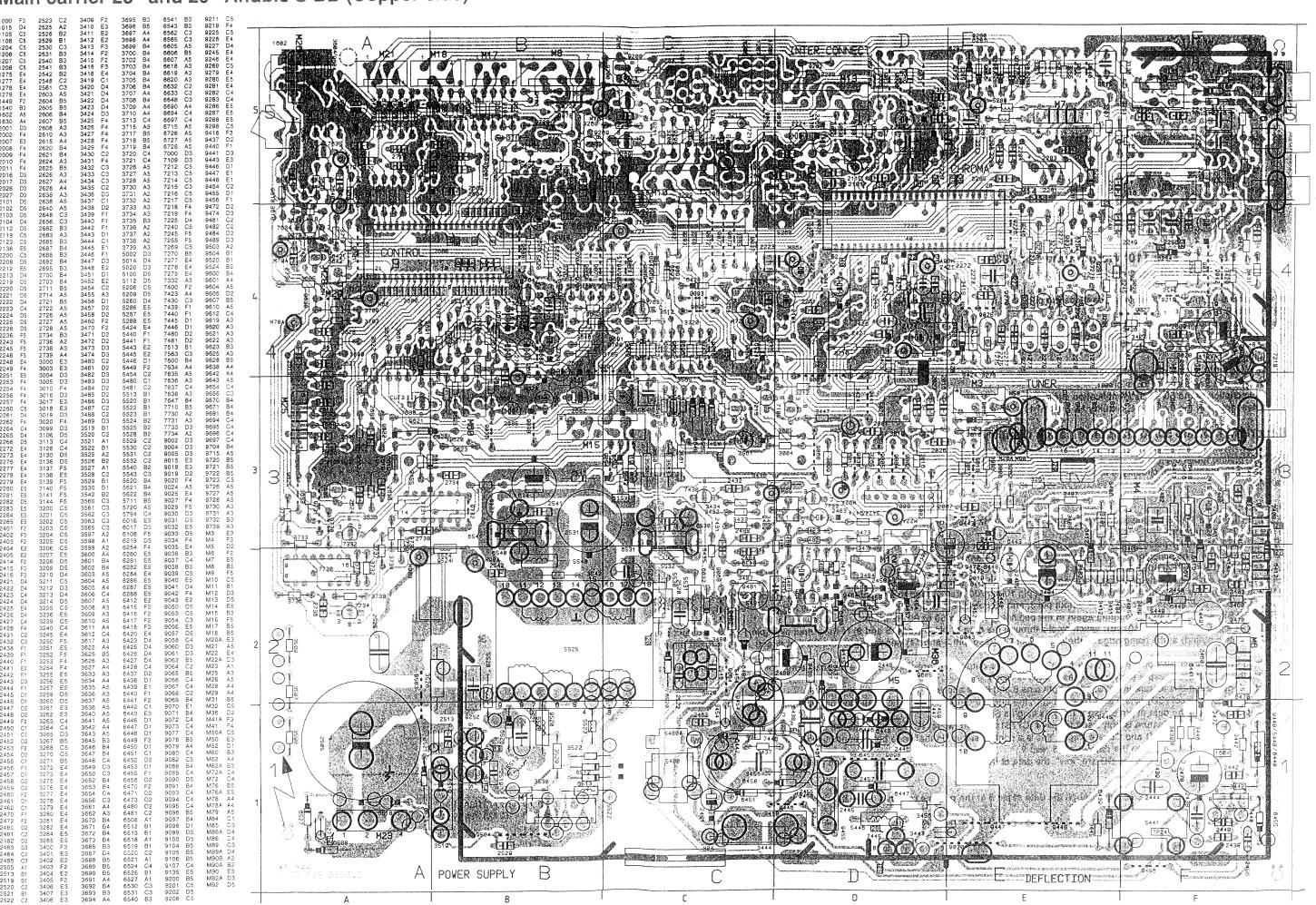




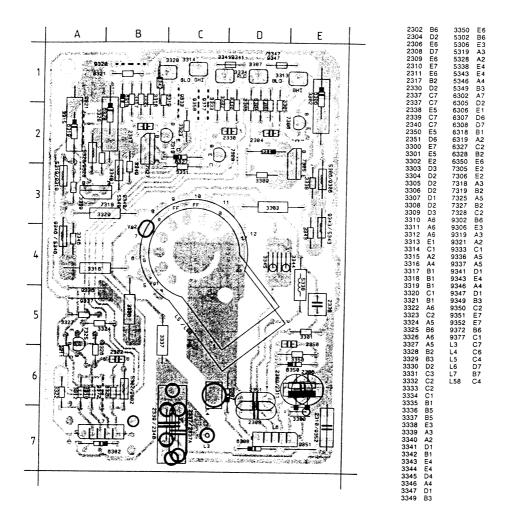
Power supply + Synchronisation + Deflection

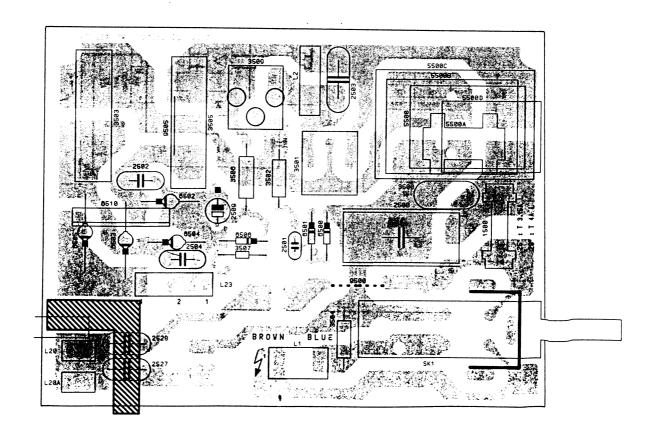




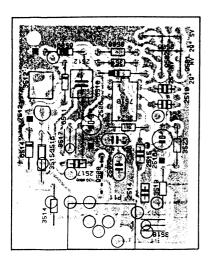


CRT panel 25" and 29" (Copper side)

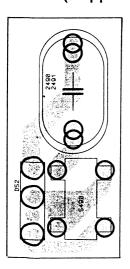




Power supply control panel 25" and 29" (Copper side)



S-correction panel 25" 110° (Copper side)



Main carrier 25" and 29"

| 1 | n carrier 2 /B/C/D] | 5" and 29" | 225 225 225 225 |
|-----------------------|----------------------------------------------------|-----------------------------------------|--------------------------|
| Vario | ous | | 225 225 |
| | 4822 404 21262 | | 226 226 226 |
| | 4822 492 62076 | | 226 |
| | 4822 492 70289 | | 226 226 |
| • | 4822 532 61201 | | 227 |
| • | 4822 265 31193 4822 265 20441 | 3 pins male WTB 3 pins header | 227 |
| | 4822 417 50217 | 4 pins male BTB (AU) | 227 |
| | 4822 265 31189 | 4 pins male WTB | 228 |
| | 4822 265 30378 4822 265 30796 | 4 pins male WTB 4 pins header (M5) | 228 |
| | 4822 265 30934 | | 228 |
| | 4822 265 31181 | 5 pins male WTB | 228 |
| | 4822 265 31093 | (M25) 6 pins male BTB | 230 |
| | 4822 265 31099 | (AU) 6 pins snap blue | 231 |
| | 4822 290 40295 4822 267 51241 | 7 pins male WTB 8 pins male BTB | 233 |
| | 4022 207 51241 | (AU) | 235 |
| 1000 | 4822 265 40818 4822 210 10448 | 8 pins male WTB | 240 |
| 1000 1000 | | | 240 |
| 1000 | 4822 210 10561 | UV936E/F (PLL) | 240 |
| 1000 | 3139 147 11380 | UV953/IEC -/93 (local sourcing) | 2404 |
| 1015 | 4822 242 72197 | OFWK2950 38.9 | 240 |
| 1015 | 4822 242 73792 | MHz OFWM1963 45.75 | 2415 |
| 1015 | 4822 242 81556 | MHz OFWK2950M 38.9 | 2416 |
| | 4822 242 81637 | MHz | 2422 |
| 1015 | | OFWK3952M 38.9 MHz | 2424 |
| 1105 1105 | 4822 242 71713 4822 242 72547 | 6.0 MHz 5.5 MHz | 2426 |
| 1105 | 4822 242 81557 | 4.5 MHz | 2428 |
| 1106 1204 | 4822 242 72057 4822 242 71207 | 6.5 MHz 4.5 MHz | 2431 |
| 1206 | 4822 242 71207 | 4.5 MHz | 2431 |
| 1206 1207 | 4822 242 81712 4822 242 81301 | 5.5/5.74 MHz | 2432 |
| 1207 | 4822 153 30025 | 6.5 MHz 6.0 MHz | 2438 |
| 1208 | 4822 242 81712 | 5.5/5.74 MHz | 2439 |
| 1275 1277 | 4822 242 81691 4822 242 81575 | 4.433619 MHz 3.579500 MHz | 2441 |
| 1449▲ | 4822 071 56301 | Fuse 630 mA | 2442 |
| 1540 ^ 1630 | 4822 071 56301 4822 071 53152 4822 242 81727 | Fuse 3.15 A 10.0 MHz ceramic | 2444 |
| 1630 | 4822 242 81893 | 10.0 MHz crystal | 2445 |
| | | *************************************** | 2446 |
| -11- | | | 2447 |
| 2001 | 4822 126 12642 | | 2448 |
| 2002 2007 | 4822 124 81022 4822 121 41856 | 1μF 20% 50V 22nF 5% 250V | 2449 |
| 2008 | 5322 121 42386 | 100nF 5% 63V | 2450 |
| 2009 | 4822 126 12642 | 10nF 20% 50V | 2450 2451 |
| 2010 2016 | 4822 124 40202 4822 126 12642 | 1500µF 20% 16V 10nF 20% 50V | 2451 |
| 2017 | 4822 122 31348 | 120pF 2% 100V | 2452 |
| 2026 2027 | 4822 122 31056 4822 126 12642 | 12pf 2% 100V 10nF 20% 50V | 2453 |
| 2101 | 4822 122 33532 | 3.3nF 5% 50V | 2453 |
| 2102 | 4822 122 31072 | 47pF 2% 100V | 2454 2456 |
| 2102 2102 | 4822 126 12641 4822 126 12789 | 4.7nF 20% 82pF 5% 50V | 2457 |
| 2103 | 4822 121 51231 | 820pF 1% 400V | 2457 2458 |
| 2104 2112 | 4822 124 40248 4822 122 31072 | 10μF 20% 63V 47pF 2% 100V | 2460 |
| 2112 | 4822 126 12519 | 330pF 10% | 2461 |
| 2112 | 4822 126 13097 | 560pF 10% 50V | 2462 |

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4822 126 12862

4822 126 13096

4822 126 12639

4822 121 51319 4822 122 33449

5322 121 42386

4822 121 42868

4822 121 51319

4822 124 40433 5322 121 42386

4822 124 81023

5322 121 42386

4822 124 81021 4822 126 12643

4822 121 51252

4822 124 81022 5322 122 32491

4822 126 12643 5322 121 42386

4822 121 42408

5322 122 32491 5322 122 32491 56pF 5% 50V

270pF 10% 50V 2.2nF 20%

1µF 10% 63V 47nF 30% 50V 100nF 5% 63V 220nF 5% 50V

1µF 10% 63V

47µF 20% 25V 100nF 5% 63V

2.2µF 20% 50V 100nF 5% 63V

100µF 20% 16V 22nF 20% 50V 470nF 5% 63V

1µF 20% 50V 1nF 20% 100V

22nF 20% 50V

100nF 5% 63V 220nF 5% 63V

1nF 20% 100V 1nF 20% 100V

2251 4822 126 12643 22nF 20% 50V 4822 126 12643 4822 124 81032 22uF 20% 50V 5322 124 41431 22µF 20% 35V 100nF 5% 63V 5322 121 42386 100nF 5% 63V 5322 121 42386 18pF 2% 100V 15pF 5% 50V 4822 122 31061 4822 126 12861 4822 126 12643 4822 124 40433 22nF 20% 50V 47uF 20% 25V 4822 126 12643 4822 124 81023 22nF 20% 50V 2.2µF 20% 50V 10uF 20% 16V 4.7nF 20% 4822 124 41757 4822 126 12641 5322 121 42386 100nF 5% 63V 220pF 10% 100V 220pF 10% 100V 47nF 5% 250V 5322 122 32334 5322 122 32334 4822 121 43526 5322 122 32491 1nF 20% 100V 1nF 20% 100V 1nF 20% 100V 5322 122 32491 5322 122 32491 4822 121 43526 47nF 5% 250V 4822 121 43526 4822 126 12643 47nF 5% 250V 22nF 20% 50V 560pF 10% 50V 4.7µF 20% 4822 124 80495 560pF 10% 50V 560pF 10% 50V 4.7nF 20% 2KV 1nF 20% 100V 4822 126 13097 4822 126 13097 4822 126 12833 5322 122 32491 220nF 10% 100V 390pF 10% 500V 680pF 10% 500V 4822 121 41673 4822 122 31176 4822 126 13185 5322 121 42386 4822 126 11134 100nF 5% 63V 5.6nF 10% 50V 3300µF 20% 25V 15µF 20% 40V 4822 124 81039 4822 124 21212 2.2nF 20% 4822 126 12639 100µF 20% 25V 47nF 5% 250V 2.7nF 5% 50V 470nF 5% 50V 4822 121 43526 4822 122 33305 4822 121 43823 4822 126 12864 4822 124 81022 2.2nF 2% 250V 1µF 20% 50V 4822 126 12642 10nF 20% 50V 4822 121 41853 100nF 10% 100V 47nF 20% 4822 126 12641 27pF 2% 100V 47nF 5% 250V 4822 121 43526 4822 122 33449 4822 121 43526 47nF 30% 50V 47nF 5% 250V 4822 122 33449 47nF 30% 50V 100nF 10% 100V 47pF 5% 500V 330pF 10% 1nF 10% 1KV 4822 121 42007 4822 126 11308 4822 126 12519 4822 126 11382 4822 122 40112 4822 124 41545 56OpF 20% 500V 22OuF 20% 16V 4822 121 42007 10OnF 10% 100V 15O0pF 10%R(HR) 54 4822 126 12274 2KV 11nF 5% 1.6KV 12nF 5% 1.6KV 12nF 10% 2KV 47uF 160V 64 4822 121 70465 64 4822 121 70542 47. F 50-20% 200V 1nF 10% 1KV 30 nF 10% 400V 8 4822 124 81042 9**4** 4822 126 11382 04 4822 121 42073 0 4822 121 70281 1 4822 124 81043 50 nF 5% 400V 1)u F 20% 100V 1 F 20% 100V 22mF 20% 16V 150 OuF 20% 25V 4822 124 40756 4822 124 22582 4822 124 40432 4822 124 41747 60 uF 20% 35V 60 uF 20% 35V 60 uF 20% 35V 11F 10% 1KV 41p F 5% 500V 4822 124 80063 4822 126 11382 4822 126 11308 4822 121 51524 5322 121 42532 56n F 10% 250V 18n F 10% 400V 4822 124 81022 4822 121 51385 4822 121 40475 1F 20% 50V 3(n F 20% 100V 1(n F 10% 400V 6(0 pF 10% R(HR) 211 2470 2472 4822 124 10533 4822 126 12792 2480 4822 121 43368 4822 124 40756 2481 4822 121 43396 4822 124 81022 4822 124 40433 1 F 20% 50V 4 F 20% 25V 5 F 10% 50V 2 F 20% 8 D F 10% 63V 24834 4822 126 11134 4822 126 12639 2484 2484 2485 4822 121 51436 2505 4822 124 41748 2505 4822 124 42159 20 . F 20% 400V 30 . F 20% 400V 30 LIF 20% 400V 21 F 10% 500V 60 F 10% R(HR) 4822 124 80855 4822 126 12792 2505 2513 2520 4 4822 126 12269 20 F 10% 2KV 10 F 10% 1KV 1F 20% 400V 2521 4822 126 12095 2522 4822 126 11824 2525 4822 122 40602

Spare parts list

| *************************************** | | -41 | 7 | | | | | | | |
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| 2526 | 4822 121 42071 3.9nF 10% 4 | ov 326 | 4822 116 52271 | 33k 5% 0.5W | 3438 | 4822 116 52303 | 8k2 5% 0 5W | 3643 | 4822 116 52256 | 2k2 5% 0 5W |
| 2529 | 4822 126 12642 10nF 20% 50 | | | | 3439 | | | 3645 | | |
| 2530 | 4822 126 13153 1nF 10%R(H | | | | 3440 | | | 3646 | | |
| | 3KV | 3264 | 4822 100 20166 | 10k 30% lin 0.1W | 3442 | 4822 116 52289 | 5k6 5% 0.5W | 3647 | | 10k 5% 0.5W |
| 2531 | 4822 124 22583 47µF 160V | 326 | 4822 116 52207 | 1k2 5% 0.5W | 3443 | 4822 052 10222 | 2k2 5% 0.33W | 3647 | 4822 116 52284 | |
| 2531 | 4822 124 81042 47µF 20% 20 | | | 820Ω 5% 0.5W | 3446 | | | 3648 | 4822 116 52257 | 22k 5% 0.5W |
| 2540 | 4822 124 42106 1500µF 20% | | | | 3447 | | | 3648 | | |
| 2541 ▲ | | 3268 | | | | 4822 052 11108 | | 3649 | | |
| 2548 | 4822 126 11824 100pF 10% 1 | | | | 3451 | 4822 116 52271 | | 3650 | 4822 116 52244 | |
| 2561 2561 | 4822 124 81032 22µF 20% 50 5322 124 41431 22µF 20% 35 | | | | | ▲ 4822 052 10279 ▲ 4822 052 11108 | | 3652 | 4822 116 52258 | |
| 2604 | 4822 122 33293 100pF 5% 50 | | | 4k7 5% 0.5W | 3454 | | | 3653 3654 | 4822 116 52244 | 150Ω 5% 0.5W |
| 2605 | 4822 124 40749 3.3uF 20% 6 | | | | 3455 | | | 3656 | 4822 116 52233 | |
| 2605 | 4822 124 81041 3.3uF 20% 5 | | | 100Ω 5% 0.33W | | 4 4822 053 20334 | | 3661 | 4822 116 52249 | |
| 2606 | 4822 126 12643 22nF 20% 50 | / 3301 | 4822 116 52265 | | | 4822 053 20434 | | 3662 | 4822 116 52289 | |
| 2607 | 4822 122 33293 100pF 5% 50 | | | | 3457 | 4822 116 52233 | | 3670 | 4822 116 52226 | |
| 2608 | 5322 122 32356 820pF 10% 1 | | | | 3458 | 4822 116 52226 | | 3671 | 4822 116 52226 | |
| 2610 | 5322 122 32356 820pF 10% 1 | | | | 3460 | | 18k 5% 0.5W | 3672 | 4822 116 52233 | |
| 2615 2620 | 5322 122 32356 820pF 10% 1 4822 124 81022 1uF 20% 50V | | | 220Ω 5% 0.5W 1k6 5% 0.5W | 3460 | 4822 116 52257 4822 052 11828 | | 3673 | 4822 116 52233 | |
| 2624 | 4822 124 81022 1µF 20% 50\ 5322 122 32356 820pF 10% 1 | 3306 3307 | | | 3470 | 4822 116 52224 | | 3681 3682 | 4822 050 22203 4822 116 52257 | |
| 2625 | 5322 122 32356 820pF 10% 1 | | | | 3472 | | | 3683 | 4822 116 52257 | |
| 2626 | 5322 122 32356 820pF 10% 1 | | | 180Ω 5% 0.5W | 3473 | 4822 116 52224 | | | 4822 050 21003 | |
| 2627 | 5322 122 32356 820pF 10% 1 | 0V 3310 | 4822 116 52289 | 5k6 5% 0.5W | 3474 | 4822 116 52223 | 430Ω 5% 0.5W | 3685 | 4822 116 52257 | |
| 2628 | 5322 122 32356 820pF 10% 1 | | | 5k6 5% 0.5W | | 4822 052 10128 | 1Ω2 5% 0.33W | 3685 | 4822 116 52284 | 47k 5% 0.5W |
| 2636 | 4822 122 33307 10nF 5% 50V | 3312 | | 5k6 5% 0.5W | 3481 | 4822 116 52252 | | 3686 | | |
| 2636 | 4822 126 12642 10nF 20% 50 | | | 2k2 30% lin 0.1W | 3481 | 4822 116 52284 | | 3687 | 4822 116 52284 | |
| 2638 2640 | 5322 122 32491 | | | | 3482 3482 | 4822 116 52251 4822 116 52284 | | 3688 | | 100Ω 5% 0.5W |
| 2648 | 4822 124 40248 10uF 20% 63 | | | | 3483 | 4822 116 52283 | | 3688 3689 | 4822 116 52195 4822 116 52175 | |
| 2656 | 5322 121 42661 330nF 5% 63 | | | | 3483 | 4822 116 52291 | | 3690 | 4822 116 52175 | |
| 2682▲ | 4822 124 40433 47µF 20% 25 | | | | 3484 | | 10k 30% lin 0.1W | 3691 | 4822 116 52284 | |
| 2682 | 4822 124 81022 1µF 20% 50V | 3319 | | | 3484 | 4822 101 11003 | | 3691 | 4822 116 52303 | |
| | 4822 126 12639 2.2nF 20% | 3320 | | | 3485 | 4822 050 11002 | | 3692 | 4822 116 52304 | |
| | 5322 121 42386 100nF 5% 63 | | | | 3486 | 4822 116 52224 | | 3693 | 4822 116 52257 | |
| | 4822 124 81032 22µF 20% 50 4822 124 81022 1µF 20% 50V | 3322 | | | 3486 | 4822 116 52283 4822 116 52235 | | 3693 | 4822 116 52284 | |
| | 4822 124 81022 1uF 20% 50V | 3324 | | | 3487 | 4822 117 11566 | 2M 5% 0.5W | 3694 3695 | 4822 116 52195 4822 116 52238 | |
| | 5322 122 32491 1nF 20% 100 | | | | 3488 | 4822 116 52234 | | 3695 | 4822 116 52277 | |
| | 5322 122 32491 1nF 20% 100 | | | | 3489 | | 1k 30% lin 0.1W | 3696 | 4822 050 11002 | |
| 2692 | 4822 124 40753 6.8µF 20% 63 | / 3327 | 4822 116 52228 | 680Ω 5% 0.5W | 3489 | 4822 100 20589 | 20k 30% lin 0.1W | 3696 | 4822 116 52283 | 4k7 5% 0.5W |
| | 4822 124 81022 1µF 20% 50V | 3328 | | | 3519 | 4822 117 10422 | | 3697 | | 100Ω 5% 0.5W |
| | 4822 124 81032 22µF 20% 50 | | | | 3520 | 4822 113 80637 | | 3698 | | 100Ω 5% 0.5W |
| | 4822 124 40248 10µF 20% 63 4822 124 40753 6.8µF 20% 63 | | 4822 116 52175 4822 116 52213 | | 3521 | 4822 052 10222 4822 116 52206 | | 3699 | 4822 116 52303 | 8k2 5% 0.5W |
| | 4822 124 40433 47uF 20% 25 | | | | 3522 | 4822 116 52215 | 120Ω 5% 0.5W | 3700 3702 | 4822 116 52284 4822 116 52239 | 47k 5% 0.5W 120k 5% 0.5W |
| | 4822 126 12643 22nF 20% 50 | 3333 | | | 35254 | | | 3703 | 4822 116 52284 | 47k 5% 0.5W |
| | 4822 126 12868 47pF 5% 50V | 3334 | | 4k7 30% lin 0.1W | 3526 | 4822 053 11473 | | 3704 | 4822 116 52233 | 10k 5% 0.5W |
| | 5322 122 32334 220pF 10% 1 | | | 100Ω 5% 0.5W | | | 10Ω 5% 0.5W | 3706 | | 180k 5% 0.5W |
| | 4822 122 31061 18pF 2% 100 | | | | 3528 | 4822 117 11562 | | 3707 | 4822 116 5225 6 | 2k2 5% 0.5W |
| | 5322 122 32143 22pF 100V | 3337 | 4822 050 21502 | | 3529 | 4822 116 52298 | | 3708 | 4822 116 52245 | 150k 5% 0.5W |
| | 4822 122 31061 18pF 2% 100 5322 122 32143 22pF 100V | | ▲ 4822 052 10188 ▲ 4822 052 10278 | 2Ω7 5% 0.33W | 3530 3542 | 4822 116 52231 4822 116 52191 | | 3709 3710 | 4822 050 11002 | 1k 1% 0.4W |
| | 4822 122 33293 100pF 5% 50 | 3350 | | | 3560 | 4822 116 52213 | | 3711 | 4822 116 52222 4822 116 52284 | 390Ω 5% 0.5W 47k 5% 0.5W |
| | 4822 122 33293 100pF 5% 50° | 3400 | 4822 116 52256 | 2k2 5% 0.5W | 3561 | 4822 116 52195 | | 3713 | 4822 116 52278 | 390k 5% 0.5W |
| 2728 | 4822 122 33293 100pF 5% 50 | 3401 | 4822 116 52243 | 1k5 5% 0.5W | 3562 | 4822 116 52224 | | 3715 | 4822 116 52249 | 1k8 5% 0.5W |
| | 4822 126 11134 5.6nF 10% 50 | | | 1k 1% 0.4W | 3563 | 4822 116 52215 | | 3717 | 4822 116 52269 | 3k3 5% 0.5W |
| | 4822 122 33527 100pF 10% 50 | | | 1k 1% 0.6W | 3565 | 4822 116 52233 | | 3718 | 4822 116 52269 | 3k3 5% 0.5W |
| | 4822 122 33532 3.3nF 5% 50V 5322 122 32491 1nF 20% 100V | 3403 3403 | 4822 116 52259 4822 116 52263 | | 3597 3597 | 4822 116 52233 | | 3719 | 4822 116 52233 | 10k 5% 0.5W |
| 2/33 | 3322 122 32491 1111 20 6 100 | 3404 | 4822 116 52243 | 2k7 5% 0.5W 1k5 5% 0.5W | 3597 | 4822 116 52234 4822 116 52239 | 120k 5% 0.5W | 3720 3721 | 4822 116 52106 4822 116 52106 | 120Ω 5% 0.5W 120Ω 5% 0.5W |
| | | 3404 | 4822 116 52266 | 3k 5% 0.5W | 3597 | 4822 116 52245 | | 3726 | 4822 116 52283 | 4k7 5% 0.5W |
| \Box | | 3405 | 4822 116 52193 | 39Ω 5% 0.5W | 3597 | 4822 116 52252 | | 3727 | 4822 116 52:83 | 4k7 5% 0.5W |
| | | 3405 | 4822 116 81844 | | 3597 | 4822 116 52258 | | 3728 | 4822 116 5283 | 4k7 5% 0.5W |
| | 4822 116 52263 2k7 5% 0.5W | | 4822 116 52257 | | 3597 | 4822 116 52291 | 56k 5% 0.5W | 3730 | 4822 116 52183 | 4k7 5% 0.5W |
| | 4822 116 52207 1k2 5% 0.5W 4822 116 52207 1k2 5% 0.5W | | 4822 116 52271 | | | 4822 116 52297 | | 0.00 | | |
| | 4822 052 10109 10Ω 5% 0.33V | | 4822 116 52254 | | | | 68k 5% 0.5W | 3731 | 4822 116 52833 | 10k 5% 0.5W |
| | 4822 116 52269 3k3 5% 0.5W | | | 27k 5% 0 5W | 3598 | 4822 116 52271 | 68k 5% 0.5W 33k 5% 0.5W | 3731 3732 | 4822 116 5233 4822 116 5233 | 10k 5% 0.5W 10k 5% 0.5W |
| | | | 4822 116 52264 4822 273 30397 | | 3599 | 4822 116 52271 4822 116 52228 | 68k 5% 0.5W 33k 5% 0.5W 680Ω 5% 0.5W | 3731 3732 3733 | 4822 116 5233 4822 116 5233 4822 116 5233 | 10k 5% 0.5W 10k 5% 0.5W 10k 5% 0.5W |
| 2012 | 4822 116 52257 22k 5% 0.5W | 3408 | 4822 273 30397 | 1P 50M A 35V | | 4822 116 52271 4822 116 52228 4822 116 52252 | 68k 5% 0.5W 33k 5% 0.5W 680Ω 5% 0.5W 180k 5% 0.5W | 3731 3732 3733 3734 | 4822 116 5233 4822 116 5233 4822 116 5233 4822 116 5244 | 10k 5% 0.5W 10k 5% 0.5W 10k 5% 0.5W 15k 5% 0.5W |
| | 4822 116 52257 22k 5% 0.5W 4822 116 52256 2k2 5% 0.5W | 3408 3409 3410 | 4822 273 30397 4822 116 52276 4822 100 11391 | 1P 50M A 35V 3k9 5% 0.5W 330Ω 30% lin 0.1W | 3599 3599 3599 3599 | 4822 116 52271 4822 116 52228 4822 116 52252 4822 116 52269 4822 116 52272 | 68k 5% 0.5W 33k 5% 0.5W 680Ω 5% 0.5W 180k 5% 0.5W 3k3 5% 0.5W | 3731 3732 3733 | 4822 116 5233 4822 116 5233 4822 116 5233 4822 116 5234 4822 116 5234 | 10k 5% 0.5W 10k 5% 0.5W 10k 5% 0.5W |
| 3019 | 4822 116 52257 22k 5% 0.5W 4822 116 52256 2k2 5% 0.5W 4822 116 52244 15k 5% 0.5W | 3408 3409 3410 3411 | 4822 273 30397 4822 116 52276 4822 100 11391 4822 116 80676 | 1P 50M A 35V 3k9 5% 0.5W 330Ω 30% lin 0.1W 1Ω5 5% 0.5W | 3599 3599 3599 3599 3599 | 4822 116 52271 4822 116 52228 4822 116 52252 4822 116 52269 4822 116 52272 4822 116 52284 | 68k 5% 0.5W 33k 5% 0.5W 680Ω 5% 0.5W 180k 5% 0.5W 330k 5% 0.5W 330k 5% 0.5W 47k 5% 0.5W | 3731 3732 3733 3734 3735 3736 3737 | 4822 116 52:33 4822 116 52:33 4822 116 52:33 4822 116 52:44 4822 116 52:34 4822 116 52:85 4822 116 52:83 | 10k 5% 0.5W 10k 5% 0.5W 10k 5% 0.5W 15k 5% 0.5W 100k 5% 0.5W 470k 5% 0.5W 4k7 5% 0.5W |
| 3019 3099 | 4822 116 52257 22k 5% 0.5W 4822 116 52256 2k2 5% 0.5W 4822 116 52244 15k 5% 0.5W 4822 050 23305 3M3 1% 0.6W | 3408 3409 3410 3411 3412 | 4822 273 30397 4822 116 52276 4822 100 11391 4822 116 80676 4822 116 80676 | 1P 50M A 35V 3k9 5% 0.5W 330Ω 30% lin 0.1W 1Ω5 5% 0.5W 1Ω5 5% 0.5W | 3599 3599 3599 3599 3599 3599 | 4822 116 52271 4822 116 52228 4822 116 52252 4822 116 52269 4822 116 52272 4822 116 52284 4822 116 52289 | 68k 5% 0.5W 33k 5% 0.5W 680Ω 5% 0.5W 180k 5% 0.5W 3k3 5% 0.5W 330k 5% 0.5W 47k 5% 0.5W 5k6 5% 0.5W | 3731 3732 3733 3734 3735 3736 3737 | 4822 116 5233 4822 116 5233 4822 116 5233 4822 116 52244 4822 116 5234 4822 116 5285 | 10k 5% 0.5W 10k 5% 0.5W 10k 5% 0.5W 15k 5% 0.5W 100k 5% 0.5W 470k 5% 0.5W 4k7 5% 0.5W |
| 3019 3099 3106 | 4822 116 52257 22k 5% 0.5W 4822 116 52256 2k2 5% 0.5W 4822 116 52244 15k 5% 0.5W 4822 050 23305 3M3 1% 0.6W 4822 116 52228 680Ω 5% 0.5V | 3408 3409 3410 3411 3412 3413 | 4822 273 30397 4822 116 52276 4822 100 11391 4822 116 80676 4822 116 80676 4822 053 10221 | 1P 50M A 35V 3k9 5% 0.5W 330Ω 30% lin 0.1W 1Ω5 5% 0.5W 1Ω5 5% 0.5W 220Ω 5% 1W | 3599 3599 3599 3599 3599 3599 3599 | 4822 116 52271 4822 116 52228 4822 116 52252 4822 116 52269 4822 116 52284 4822 116 52284 4822 116 52289 4822 116 52291 | 68k 5% 0.5W 33k 5% 0.5W 680Ω 5% 0.5W 180k 5% 0.5W 33k 5% 0.5W 330k 5% 0.5W 47k 5% 0.5W 56k 5% 0.5W 56k 5% 0.5W | 3731 3732 3733 3734 3735 3736 3737 | 4822 116 52:33 4822 116 52:33 4822 116 52:33 4822 116 52:44 4822 116 52:34 4822 116 52:85 4822 116 52:83 | 10k 5% 0.5W 10k 5% 0.5W 10k 5% 0.5W 15k 5% 0.5W 100k 5% 0.5W 470k 5% 0.5W 4k7 5% 0.5W |
| 3019 3099 3106 3113 | 4822 116 52257 22k 5% 0.5W 4822 116 52256 2k2 5% 0.5W 4822 116 52244 15k 5% 0.5W 4822 050 23305 3M3 1% 0.6W 4822 116 52228 680Ω 5% 0.5W 4822 050 11002 1k 1% 0.4W | 3408 3409 3410 3411 3412 3413 3414 | 4822 273 30397 4822 116 52276 4822 100 11391 4822 116 80676 4822 116 80676 4822 053 10221 4822 116 52256 | 1P 50M A 35V 3k9 5% 0.5W 330Ω 30% lin 0.1W 1Ω5 5% 0.5W 1Ω5 5% 0.5W 220Ω 5% 1W 2k2 5% 0.5W | 3599 3599 3599 3599 3599 3599 3599 3599 | 4822 116 52271 4822 116 52228 4822 116 52252 4822 116 52259 4822 116 52272 4822 116 52284 4822 116 52289 4822 116 52291 4822 116 52297 | 68k 5% 0.5W 33k 5% 0.5W 680Ω 5% 0.5W 180k 5% 0.5W 330k 5% 0.5W 47k 5% 0.5W 56k 5% 0.5W 68k 5% 0.5W | 3731 3732 3733 3734 3735 3736 3737 3738 | 4822 116 52:33 4822 116 52:33 4822 116 52:33 4822 116 52:44 4822 116 52:34 4822 116 52:85 4822 116 52:83 | 10k 5% 0.5W 10k 5% 0.5W 10k 5% 0.5W 15k 5% 0.5W 100k 5% 0.5W 470k 5% 0.5W 4k7 5% 0.5W |
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5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W 300 5% 0.5W | 3599 3599 3599 3599 3599 3599 3599 3600 3601 3602 3603 3604 3606 3607 3608 3611 3612 3626 3626 3626 3626 3626 3623 3633 3633 3633 3633 3634 3635 3636 3637 3637 3637 3637 3637 3637 | 4822 116 52271 4822 116 52228 4822 116 52269 4822 116 52269 4822 116 52289 4822 116 52289 4822 116 52289 4822 116 52291 4822 116 52291 4822 116 52291 4822 116 52291 4822 116 52283 4822 116 52278 4822 116 52278 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52175 4822 116 52284 4822 116 52284 4822 116 52284 4822 116 52284 4822 116 52284 4822 116 52284 4822 116 52284 4822 116 52284 4822 116 52284 4822 116 52284 4822 116 52284 4822 116 52284 4822 116 52284 4822 116 52284 4822 116 52284 4822 116 52285 4822 116 52285 4822 116 52285 4822 116 52285 4822 116 52286 | 68k 5% 0.5W 680Ω 5% 0.5W 880Ω 5% 0.5W 180k 5% 0.5W 330k 5% 0.5W 330k 5% 0.5W 330k 5% 0.5W 566 5% 0.5W 566 5% 0.5W 566 5% 0.5W 566 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W 560 5% 0.5W | 3731 3733 3733 3734 3735 3736 3737 50024 5004 5004 5004 5102 5094 5102 5112 5112 5112 5206 5206 5208 5209 5209 5209 5209 5209 5209 5209 5209 | 4822 116 52(33 4822 116 52(33) 4822 116 52(33) 4822 116 52(34) 4822 157 53(34) 4822 157 63(35) 4822 157 77(19) 4822 157 73(36) 4822 157 53(36) 4822 157 53(36) | 10k 5% 0.5W 10k 5% 0.5W 10k 5% 0.5W 15k 5% 0.5W 170k 10% 170k 1 |

Spare parts list

```
54454 4822 140 10494 LOT 25" TXT &
                                                6606 4822 130 34173
                                                                                                         4822 116 52249
                                                                                                                                                   ▲2490 4822 121 42442= 260nF 5% 200V
                                                                                                         4822 116 52283
4822 116 52264
                                                                                                                           4k7 5% 0.5W
27k 5% 0.5W
                           non TXT
LOT 25" -/93
                                                 6607 4822 130 30621
                                                                           1N4148
                                                                                                 3510
                                                        4822 130 34195
 5445 4822 140 10511
                                                 6618
                           LOT 29" non TXT
LOT 29" TXT
 5445 4822 140 10506
5445 4822 140 10507
                                                6618
                                                        4822 130 34197
                                                                           BZX79-B12
                                                                                                 3512
                                                                                                         4822 100 20166
                                                                                                                            10k 30% lin 0.1W
                                                        4822 130 30621
                                                                           1N4148
                                                                                                         4822 116 52175
                                                                                                                            100Ω 5% 0.5W
                                                                           BZX79-C4V7
                                                                                                 35164
                                                                                                         4822 050 22701
 5446 4822 157 60171
5449 4822 157 51462
                           Read 10 MHz
                                                6633
                                                        4822 130 34174
                                                                                                                           270Ω 1% 0.6W
                                                                                                                                                  ▲5490 4822 140 10509 Bridge coil 250μH
                                                                                                 3517 4822 052 10159
3517 4822 052 10339
                                                                                                                           15Ω 5% 0.33W
33Ω 5% 0.33W
                                                        4822 130 34142
                                                                           BZX79-C33
                           10µH 10%
        4822 157 71118
4822 152 20721
4822 157 71406
                           Lin. coil 25"
                                                                           HZT33
                                                        4822 130 82037
 5454
                                                6648
                           Lin. coil 25" -/93
Lin. coil 29"
                                                6690 4822 130 30621
6715 4822 130 30621
                                                                           1N4148
                                                                                                 3518 4822 052 10151
3523 4822 116 52278
                                                                                                                           150Ω 5% 0.33W
390k 5% 0.5W
                                                                                                                                                  CRT panel 29" [EE]
 5454
        4822 157 71405
4822 157 10728
 54804
                                                                                                 3524
                                                                                                         4822 050 11002
                                                                                                                           1k 1% 0.4W
                           Bridge coil -/93
100µH 10%
                                                                                                         4822 116 52207
                                                                                                                           1k2 5% 0.5W
 54804
                                                                                                                                                  Various
        4822 157 62336
4822 157 60171
 5481
                           Bead 10 MHz
                                                                                                                                                          4822 212 31772
                                                                                                                                                                            CRT panel 29" NN
CRT panel 29" -/93
                                                        4822 209 10892 LA7910
4822 130 40938 BC548
4822 130 44197 BC558B
 5522
         4822 157 52007
                           4.7µH 10%
                                                7000
                                                                                                                                                          3139 138 64180
         4822 152 20667
                           5.6µH 10%
                                                                                                 6509
                                                                                                         4822 130 34174
                                                7212▲
                                                                                                                           BZX79-C4V7
 5524
         4822 157 63708
                           5.6uH 10%
                                                                                                                                                          4822 255 70254
                                                        4822 130 44197
4822 130 40941
                                                                                                        4822 130 31024
4822 130 30621
                                                                                                                                                                            Holder valve
 5525 4822 146 31348
                           FFS transformer
                                                                          BC558B
                                                                                                 6510
                                                                                                                           BZX79-B18
                                                                                                                                                          4822 265 30934
4822 265 31153
                                                                                                                                                                            5 pins header
5 pins header black
                                                                                                                            1N4148
                                                7214
 5525 4822 140 10508
                           FFS transformer
                                                7215
                                                        4822 130 40938
4822 130 40938
                                                                          BC548
                                                                                                 6514
                                                                                                         4822 130 34189
                                                                                                                           BAV20
                           29" 140-276V
                           FFS transformer
 5525 4822 148 81405
                                                7217
                                                        4822 130 40938
                                                                          BC548
                                                                                                  Ø 💳
                                                                                                                                                  -1
                                                                          L7808CP
                                                                          TDA8362E/N2
 5528
         4822 157 70823
                           3u9 10%
                                                7225
                                                        4822 209 33398
                                                                           TDA8361E/N3
        4822 157 60171
4822 157 60171
                           Bead 10 MHz
                                                7225
                                                        4822 209 33479
                                                                                                 7510 4822 209 33432 UC3842BN
                                                                                                                                                  2302
                                                                                                                                                          4822 126 12643
                                                                                                                                                                            22nF 20% 50V
                                                                                                                                                                            560pF 10% 50V
4.7µF 20%
                                                                                                                                                  2304
                                                                                                                                                          4822 126 13097
                                                                          TDA8361E/N4
                           Bead 10 MHz
                                                        4822 209 33916
 5530
                                                7225
                                                                                                                                                          4822 124 80495
                                                                                                                                                  2306
        4822 157 63698
4822 157 60171
                           33µH 7.5%
Bead 10 MHz
                                                7245
                                                        4822 209 32359
                                                                          TDA8395/N1
 5531
                                                                                                                                                                            560pF 10% 50V
560pF 10% 50V
                                                        4822 209 31714
                                                                                                                                                  2317
                                                                                                                                                          4822 126 13097
                                                7255
 5532
                                                                                                 Mains input panel 29"
                                                                                                                                                          4822 126 13097
        4822 157 60171
4822 157 52259
                                                        4822 130 40938
4822 130 41376
                                                                          BC548
 5540
                           Bead 10 MHz
                                                7270
                           5.6µH 10%
                                                                          BF494B
                                                                                                 [AA]
                                                                                                                                                  2340
                                                                                                                                                         4822 126 12833
                                                                                                                                                                            4.7nF 20% 2KV
                                                                                                                                                                           1nF 20% 100V
220nF 10% 100V
                                                                                                                                                         5322 122 32491
4822 121 41673
 56204
        4822 157 52285
                           6.8uH 10%
                                                7305
                                                        4822 130 41773
                                                                          BF869
                                                        4822 130 41376
4822 130 41773
                                                7306
7318
                                                                          BF494B
                                                                                                                                                  2351
                           3.3µH 10%
 5621▲
                                                                          BF869
        4822 157 52285
                           6.8uH 10%
                                                                                                 Various
                                                        4822 130 41376
4822 130 40941
                                                                          BF494B
BC558
        4822 157 71112
                           3.3µH 10%
 5711 4822 157 52285
                           6.8uH 10%
                                                7325
                                                                                                         4822 212 31769 Mains input panel
 57204 4822 157 52286
                           22uH 10%
                                                7327
                                                        4822 130 41773
4822 130 41376
                                                                          BE869
 5720 4822 157 52983
                                                                          BF494B
                                                                                                                                                  33004
                                                                                                                                                         4822 052 10101 100Ω 5% 0.33W
                          22µH 10%
                                                7328
                                                                                                         4822 212 31773
                                                                                                                           Mains input panel
                                                                                                                                                         4822 116 52265
4822 053 12123
                                                                                                                                                                            270k 5% 0.5W
                                                7332
                                                        4822 130 40941
                                                                          BC558
                                                                                                                           29" 140-276V
                                                        4822 209 33321
                                                                           TDA3654/N3
                                                                                                                                                  3302
                                                                                                                                                                            12k 5% 3W
                                                                                                         4822 276 13431
                                                                                                                           Mains switch
                                                                                                                                                         4822 050 21502
 --
                                                                          BC548
                                                7423
                                                        4822 130 40938
                                                                                                         4822 256 30496
                                                                                                                           Fuse holder
                                                                                                                                                         4822 116 52175
4822 116 52215
4822 116 52246
                                                                                                                                                                            100Ω 5% 0.5W
                                                7430
7439
                                                        4822 130 40938
                                                                          BC548
                                                                                                                                                  3304
                                                                                                         4822 267 31359
                                                                                                                           2 pins header
                                                                                                                                                  3305
                                                                                                                                                                            220Ω 5% 0.5W
1k6 5% 0.5W
        5322 130 34955
                                                        5322 130 44647
                                                                          BC368
 6016
                          BA482
                                                                                                         4822 265 20441
                                                                                                                             pins header
 6017 4822 130 30621
6219 4822 130 31983
                                                        4822 130 42159
4822 130 63569
                                                                                                                                                  3306
                           1N4148
                                                7440
                                                                          BF819
                                                                                                                           Mains knob 29"
                                                                                                                                                         5322 100 11542
4822 116 52175
4822 116 52213
4822 116 52289
4822 116 52289
                                                                                                                                                                            4k7 30% lin 0.1W
100Ω 5% 0.5W
                           BAT85
                                                7445
                                                                          BU1508DX
                                                                                                                                                  3307
                                                                                                         4822 404 31357
                                                                                                                           Bracket for mains
                                                                                                                                                  3308
        4822 130 34233
4822 130 30621
 6254
                           B7X79-C5V1
                                                7446
                                                        4822 130 41646
                                                                          BF423
                                                                                                                            input panel
                                                7480
7481
                                                        4822 130 40824
                                                                                                                                                  3309
                                                                                                                                                                            180Ω 5% 0.5W
                                                                                                       4822 070 34002
                                                                                                 1500
                                                                                                                           Fuse 4 AT
                                                                                                                                                  3310
 6281 4822 130 30621
                           1N4148
                                                        4822 130 40938
                                                                          BC548
                                                                          STH12N60FI
STH8NA60FI
 6282 4822 130 30621
                                                75134
7513
                                                                                                                                                  3311
                                                                                                                                                                            5k6 5% 0.5W
                                                                                                                                                  3312
                                                                                                                                                         4822 116 52289
 6284 4822 130 30621
                           1N4148
                                                        4822 130 63698
                                                                                                 -1
                                                                                                                                                         5322 100 11541
 6286 4822 130 30621
                           1N4148
                                                7563
                                                        4822 130 40941
                                                                          BC558
                                                                                                                                                  3313
                                                                                                                                                                            2k2 30% lin 0.1W
                                                                                                                                                         5322 100 11541
4822 053 12123
                                                                                                                                                                           2k2 30% lin 0.1W
12k 5% 3W
 62874
                                                                          PCA84C844/163
                                                                                                                                                  3314
        4822 130 30621
                           1N4148
                                                7600
                                                        4822 209 33773
                                                                                                 2500▲
                                                                                                        4822 121 70285
                                                                                                                           470nF 10% 250V
                                                                                                                                                  3315
6288 4822 130 30621
6305 4822 130 34174
                           1 NA 1 A R
                                                                          SA+ V0.9
P83C055-CV
                                                                                                        4822 121 70141
4822 126 12793
                                                                                                                           33nF 5% 400V
                                                                                                                                                  3316
                                                                                                                                                         4822 050 21502
                                                                                                                                                                            1k5 1% 0.6W
                           BZX79-C4V7
                                                7600
                                                        4822 209 33774
                                                                                                 2502
                                                                                                                           2.2nF 10% 2KV
                                                                                                                                                          4822 116 52175
                                                                                                                                                                            100Ω 5% 0.5W
        4822 130 34189
4822 130 34174
4822 130 34189
6306
                           BAV20
                                                                          6123NB S12 V3.1
                                                                                                                           100nF 10% 400V
2.2nF 10% 2KV
                                                                                                         4822 121 42059
                                                                                                                                                         4822 116 52215
                                                                                                                                                  3318
                                                                                                                                                                            2200 5% 0.5W
                                                                                                 2504
                                                                                                         4822 126 12793
                                                                                                                                                         4822 116 52246
                                                                                                                                                                            1k6 5% 0.5W
                                                                          BC548B
6319
                           BAV20
                                                7635
                                                        4822 130 40937
                                                                                                        4822 124 22633
4822 122 33665
                                                                                                                           22µF 20% 35V
3.3nF 20% 125V
                                                                                                 2509
6327
        4822 130 34174
4822 130 34189
                           BZX79-C4V7
                                                7636
                                                        4822 130 40938
                                                                          BC548
                                                                                                                                                  3320
                                                                                                                                                         5322 100 11542
                                                                                                                                                                            4k7 30% lin 0.1W
                                                                                                                                                         4822 116 52175
4822 116 52222
                                                                                                                                                                           100Ω 5% 0.5W
390Ω 5% 0.5W
                                                                                                                                                  3321
6328
                                                        4822 130 40938
                                                                          BC548
                           BAV20
                                                7637
                                                                                                 2528 4 4822 122 33665
                                                                                                                          3.3nF 20% 125V
        4822 130 80928
4822 130 30621
                           BZX79-C30
                                                        4822 130 40938
4822 130 41594
                                                                                                                                                  3322
6350
                                                7638
                                                                          BC548
                                                7647
                                                                                                                                                  3323
                                                                                                                                                         4822 116 52213
4822 116 52243
                                                                                                                                                                            180Ω 5% 0.5W
                           1N4148
                                                                          PH2369
                                                                                                                                                                           1k5 5% O.5W
4k7 5% O.5W
                                                                                                                                                  3324
1N4148
                                                7684
                                                        4822 130 40938
                                                                          BC548
                                                                                                                                                         4822 116 52283
                                                        4822 130 40938
                                                                          BC548
                                                                                                                                                  3325
6417 4822 130 34173
                           BZX79-C5V6
                                                7686
                                                        4822 130 40938
                                                                          BC548
                                                                                                        4822 116 40247
4822 111 20403
                                                                                                 3501
                                                                                                                           18O 270V
6418 4822 130 30621
6420 5322 130 34563
                                                                          ST24C04B1
HEF4040BP
                                                                                                                                                         4822 116 52228
                                                        4822 209 52316
                                                                                                                                                  3327
                                                                                                                                                                            680Ω 5% 0.5W
                                                77104
                                                                                                 3502
                                                                                                                           470Ω 10%
                           BZX79-C2V7
                                                                                                                                                  3328
                                                                                                                                                         4822 053 12123
4822 050 21502
                                                                                                                                                                            12k 5% 3W
1k5 1% 0.6W
                                                7730
                                                        4822 209 10257
                                                                                                 3503 4 4822 113 80603
                                                                                                                           1.5Ω 10% 7W
                                                                                                                                                  3329
6423
        4822 130 34382
                           BZX79-C8V2
                                                7731
                                                        4822 209 10248
                                                                          HEF4013BP
                                                                                                                           4M7 5% 0.5W
                                                                                                                                                         4822 116 52175
4822 116 52213
                                                                                                                                                                            100Ω 5% 0.5W
180Ω 5% 0.5W
                           BAT85
                                                        4822 130 44196
                                                                                                                                                 3330
        4822 130 31983
                                                                                                 3505 4822 113 80603
                                                                                                                           1.5Ω 10% 7W
                                                                                                                                                  3331
RAT85
                                                       4822 130 40938 BC548
                                                7734
                                                                                                                           27k 5% 2W
18k 5% 0.5W
                                                                                                 3506 4822 053 11273
                                                                                                                                                 3332
                                                                                                                                                         4822 116 52215
                                                                                                                                                                            220Ω 5% 0.5W
                                                                                                 3507
                                                                                                        4822 116 52251
                                                                                                                                                         4822 116 52246
                                                                                                                                                                            1k6 5% O.5W
                                                                                                                                                 3333
6428
        4822 130 34382
                           BZX79-C8V2
                                                                                                 3509
                                                                                                        4822 116 40247
                                                                                                                           18Ω 270V
                          BZX79-C15
BZX79-C15
                                                                                                                                                                            4k7 30% lin 0.1W
6437
                                                                                                                                                  3334
                                                                                                                                                         5322 100 11542
                                                Power supply control
6438
                                                                                                                                                  3335
                                                                                                                                                         4822 116 52175
                                                                                                                                                                            100Ω 5% 0.5W
        4822 130 34281
                          BYV10-20
1N4148
                                                panel 29" [AA]
                                                                                                                                                         4822 050 21502
                                                                                                                                                                            1k5 1% O.6W
64394 4822 130 31631
                                                                                                                                                 3336
                                                                                                                                                  3337
                                                                                                                                                         4822 050 21502
                                                                                                                                                                            1k5 19 O.6W
        4822 130 30621
                                                                                                                                                         4822 052 10188
                                                                                                                                                                            1Ω8 5% 0.33W
6442
        4822 130 42488
                           BYD33D
                                                                                                 5500
                                                                                                       4822 157 71408 28mH mains filter
        4822 130 42488
                                                                                                                                                  33454
                                                                                                                                                         4822 052 10278
                                                                                                                                                                           2Ω7 5% 0.33W
                                                Various
                                                                                                                                                         4822 116 52234
6446
        5322 130 31559
                          BY448
6447
        4822 130 42488
                           BYD33D
                                                        4822 212 31771 Power supply cont
        5322 130 31938
                          BYV27-200
                                                                          panel 29" 90-276V
        4822 130 41275
4822 130 42489
64484
                           BY228/20
                                                                          Power supply con
                                                                                                        4822 130 80928
                          BYD33G
                                                                          panel 29" 140-276V
                                                                                                 6501
                                                                                                        4822 130 80928
                                                                                                                           BZX79-C30
                                                                                                                                                 5338
                                                                                                                                                       4822 156 20966 47 uH
6450
        4822 130 42488
                          BYD33D
                                                        3139 138 64170
                                                                          Power supply cont.
        4822 130 42488
4822 130 42489
                           BYD33D
                                                                          panel 29" -/93
                                                                                                 6503▲
                                                                                                        4822 130 80858
                                                                                                                           1N5062
                          BYD33G
                                                                                                                           1N5062
                                                                           (local sourcing)
                                                                                                 6504 4822 130 80858
6505 4822 130 80858
6453
        5322 130 31559
                                                                                                6505▲
                                                        4822 265 31099 6 pins blue snap
                                                                                                                           1N5062
                          BZX79-C8V2
        4822 130 34382
                                                                          connector
                                                                                                        4822 130 34379
                                                                                                                           BZX79-C27
6458 4822 130 30621
6470 4822 130 42489
                                                                                                                                                 6305
                                                                                                                                                        4822 130 34174
                                                                                                                                                                           BZX79C4V7
                           1N4148
                                                                                                                          D3SBA60-4003
                           BYD33G
                                                                                                                                                 6306
                                                                                                                                                        4822 130 34189
                                                                                                                                                                           BAV20
                                                                                                                                                         4822 130 34174
                                                                                                                                                                           BZX79C4V7
                                                                                                                                                 6318
        4822130 31983
                          BAT85
                                                -11-
6473 4822 130 31983
                                                                                                                                                 6319
                                                                                                                                                        4822 130 34189
                                                                                                                                                                           BAV20
                                                                                                Dynamic S-correction
                                                                                                                                                                           BZX79C4V7
                          BZT03-C15
        532213031574
                                                        5322 121 10472
                           1N4148
65124 4822130 30621
                                                                                                                                                 6328
                                                                                                                                                        4822 130 34189
                                                                                                                                                                           BAV20
                                                        4822 121 43526
                                                                                                panel [AA]
                                                2507
65134 4822130 30621
                                                                                                                                                        4822 130 80928
                                                                                                                                                                          BZX79 30
                           1N4148
                                                2508
                                                        4822 121 43187
                                                                          27nF 5% 250V
6518
       4822130 34174
                          BZX79-C4V7
                                                                          220pF 10% 100V
220pF 10% 100V
6519
                                                        5322 122 32334
                                                                                                                                                  Ø £
                                                        5322 122 32334
                                                2511
                                                                         220pF 10% 100V
1μF 10% 63V
560pF 10% 50V
560pF 10% 50V
4.7μF 20% 50V
470pF 10% 500V
        532213031574
                          BZT03-C15
                                                                                                Various
                                                        4822 121 51319
6520
        4822 130 42606
                                                2514
                                                        4822 126 13097
                                                                                                                                                         4822 130 41773
        4822130 34499
                          BZX79-C20
                                                                                                        3139 138 57190 Dynamic S-corr
                                                2515
                                                       4822 126 13097
4822 124 80371
       482213032896
482213042606
                                                                                                                                                        4822 130 41376
                                                                                                                                                                           BF494
65264
                           BYD33M
                                                                                                                                                 7306
6527
                                                                                                                                                 7318
                                                                                                                                                        4822 130 41773
                                                                                                                                                                           RESEC
                           BYD33J
                                                                                                                           (local sourcing)
                                               2517
                                                       4822 126 11157
                                                                                                                                                         4822 130 41376
                                                                                                        4822 265 20441 3 pins header
       4822 130 33531
                          BY229F-600
6541
        4822130 81104
                                                                                                                                                 7325
                                                                                                                                                        4822 130 40941
                                                                                                                                                                           BC558
        4822130 34174
                          BZX79-C4V7
                                                                                                 11
        5322130 31504
                                                                                                                                                 7328
                                                                                                                                                        4822 130 41376
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